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# BUREAU OF MINES

MUSEUM BUILDING

14TH AVENUE AND SHERMAN STREET

DENVER 2, COLORADO

## REPORT

FOR THE YEARS 1950 - 1951

WALTER E. SCOTT, JR.

COMMISSIONER OF MINES

# BUREAU OF MINES

MUSEUM BUILDING

14TH AVENUE AND SHERMAN STREET

DENVER 2, COLORADO

## REPORT

FOR THE YEARS 1950 - 1951

WALTER E. SCOTT, JR.

COMMISSIONER OF MINES

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WALTER E. SCOTT, JR.
COMMISSIONER OF MINES

STATE OF COLORADO

# BUREAU OF MINES

Museum Building

Denver

August 15, 1952

Honorable Dan Thornton
Governor of Colorado
State Capitol Building
Denver 2, Colorado

Dear Governor Thornton:

In compliance with the requirements of the law, Chapter 110, Section 285 of the Colorado Statutes Annotated 1935, I have the honor to transmit herewith the Report of the State Bureau of Mines for the years 1950 and 1951.

Respectfully submitted,

WALTER E. SCOTT, JR.
Commissioner of Mines

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PERSONNEL OF

THE COLORADO BUREAU OF MINES

1950 - 1951

FRED JONES, Commissioner of Mines..... Denver
Deceased April 25, 1950

WALTER E. SCOTT, JR., Commissioner of Mines..... Central City
Appointed May 3, 1950

WM. HARVEY CHAPMAN, Inspector, District No. 1..... Denver

FRED E. THEOBALD, Inspector, District No. 2..... Canon City

JOHN WM. DOYLE, Inspector, District No. 3..... Leadville

G. A. FRANZ, JR., Inspector, District No. 4..... Ouray

ETHEL F. McCARTHY, Administrative Assistant..... Denver

MARGARET F. SMITH, Stenographer..... Denver

MARY A. PIPER, Stenographer..... Denver

DORIS DAVIES, Stenographer..... Denver

MABEL VEZIE, Clerk..... Denver

RICHARD C. GROOM, Associate Curator..... Denver

HELEN O'DONNELL, Associate Curator..... Denver

RESS PHILIPS, Laboratory Assistant..... Denver

# FOREWORD

Section 285, Volume 4, Chapter 110, 1935 Colorado Statutes Annotated, states "It shall be the duty of the Commissioner of Mines to prepare an Annual Report which shall contain a statement of the work accomplished by the Bureau of Mines and such statistical information as he may deem of value to the industry and general public. There shall be printed at least 1,500 copies of said report for distribution".

Neither in 1950 nor 1951 were funds available for printing the Annual Report, but it was hoped that a report covering much of the information of the two years could be prepared and multigraphed. However, a shortage of office personnel made this impossible and it was not until mid-July of 1952 that even a start could be made of the compilation of the material necessary for the Report.

Every effort has been made to insure accuracy and completeness of the data used in this Report. But changes, due to removals and altered mining conditions, are constantly taking place, which, undoubtedly, have caused omissions and mistakes to appear in this publication. It will be most appreciated if any additions and corrections are brought to our attention.

This Report would not be possible nor would some of the work which the Colorado Bureau of Mines is required to do be possible without complete cooperation and the generous help of other State and Federal Agencies. The list of persons to whom we are grateful is most incomplete, it would take pages to express our gratitude to everyone who has, at some time or in some way, given us help.

Colorado Compensation Insurance Fund
George R. Hallen, Accident Prevention Director
Emmet G. Ramey, Inspector

INVESTIGATIONS - INSPECTIONS - REPORTS

* * * * *

Colorado Department of Public Health
Occupational Health Section
P. W. Jacoe, Chief
J. D. Torrey, Industrial Hygienist

AIR SAMPLING - INVESTIGATIONS - REPORTS

* * * * *

Secretary of State's Office

INFORMATION - COLORADO CORPORATIONS

* * * * *

Colorado School of Mines
A. L. Pierce, Experimental Plant

IDENTIFICATION and TESTS, MINERAL SAMPLES

* * * * *

United States Public Health Service
Division of Occupational Health
Salt Lake City Field Office
Duncan Holliday, Senior Sanitary Engineer

AIR SAMPLING - ADVICE - REPORTS

* * * * *

United States Geological Survey

PROFESSIONAL PAPERS - PAMPHLETS
OTHER PUBLICATIONS

* * * * *

United States Bureau of Mines

INFORMATION and INVESTIGATION REPORTS
OTHER PUBLICATIONS

Region IV - Denver
J. H. East, Jr., Regional Director

ADVICE and INFORMATION

Economics Division
A. J. Martin, Chief

METAL PRODUCTION FIGURES

Accident Prevention and Health Division
E. H. Denny, Chief A. W. Worcester, Supervisor

ACCIDENT PREVENTION and FIRST AID COURSES
INVESTIGATIONS and REPORTS

For the excellent work being done in the field by the Inspectors, I wish to express my thanks to Wm. Harvey Chapman, John W. Doyle, G. A. Franz, Jr. and Fred E. Theobald.

The preparation of this Report for publication has been made possible only by the efforts of the present office staff - Kaye M. B. Sullivan, Administrative Secretary; Josephine Ipsen, Statistician and Donna Samuelson, Clerk-Typist. We wish to express our sincere appreciation to Meyer Greenstein and his staff at the State Multigraphing Department for printing the Report.

WALTER E. SCOTT, JR.
Commissioner of Mines
Denver, Colorado

## DISTRICTS OF INSPECTION

DISTRICT NO. 1 - Adams, Arapahoe, Boulder, Clear Creek, Denver, Gilpin, Grand, Jackson, Jefferson, Larimer, Logan, Moffat, Morgan, Phillips, Routt, Sedgwick, Summit, Washington, Weld and Yuma counties.

DISTRICT NO. 2 - Baca, Bent, Cheyenne, Crowley, Custer, Douglas, Elbert, El Paso, Fremont, Huerfano, Kiowa, Kit Carson, Las Animas, Lincoln, Otero, Park, Prowers, Pueblo and Teller counties.

DISTRICT NO. 3 - Alamosa, Chaffee, Conejos, Costilla, Eagle, Garfield, Lake, Mineral, Pitkin, Rio Blanco and Rio Grande counties, and that portion of Saguache county lying south and east of the main Continental Divide, and the extreme northwest part of Gunnison county, lying north of the 39th degree of latitude.

DISTRICT NO. 4 - Archuleta, Delta, Dolores, Hinsdale, La Plata, Mesa, Montezuma, Montrose, Ouray, San Juan and San Miguel counties and all of Gunnison county except the extreme northwest corner lying north of the 39th degree of latitude, also that part of Saguache county lying north and west of the main Continental Divide.

## COMMISSIONERS OF MINES

Harry A. Lee.....May 11, 1895 - May 10, 1903

E. L. White.....May 10, 1903 - May 10, 1907

T. J. Dalzell.....May 10, 1907 - May 10, 1911

T. R. Henahen.....May 10, 1911 - May 10, 1915

Fred Carroll.....May 10, 1915 - May 10, 1919

Horace F. Lunt.....June 1, 1919 - June 1, 1923

John T. Joyce.....June 1, 1923 - June 12, 1939

Edward P. Arthur.....June 12, 1939 - August 26, 1943

Fred Jones.....September 27, 1943 - April 25, 1950

Walter E. Scott, Jr. .....May 3, 1950

## HISTORY AND FUNCTIONS

The Bureau of Mines of the State of Colorado was established by an Act of the Tenth General Assembly, approved March 30, 1895. This Act repealed the previous Act creating an "Inspector of Metalliferous Mines" which was passed in 1889. The Bureau of Mines law established the office of Commissioner of Mines, authorized by the Colorado State Constitution in 1876 (Article 16, Section 1) and charged him, among other things, with the supervision of metal mine inspection and the enforcement of laws relating to safety and health in metal mines. Subsequently, this Act was broadened to include "any ore mill, sampling works, smelter, metallurgical plant, rock quarry, clay pit, railroad tunnel, rock excavation or mine of whatever kind or character, except coal mines".

The Thirty-sixth General Assembly in 1947 passed an Act requiring the Commissioner of Mines to conduct inspections of all oil wells and all property and equipment appurtenant immediately and used in connection with producing oil wells and the enforcement of laws relating to the health, safety and welfare of any person employed at such wells.

The Commissioner of Mines was also charged "as he has opportunity and means" to collect mineral specimens and preserve the same in his office; to collect books relating to mining and geology; to collect and preserve data regarding mining costs, milling, metallurgy, geology of mineral deposits of all kinds; to distribute reliable information concerning all metal and non-metallic resources of the State; to investigate reports of all dangerous conditions and accidents and to properly record statistics of all accidents.

The first and most important function of the Colorado Bureau of Mines is inspection, to see that safe practices are used and to protect the health, safety and welfare of the men employed in the industries inspected by the Bureau.

The second important function of the Colorado Bureau of Mines is to disseminate information of a reliable nature to people making inquiries about Colorado's mineral industry.

## BUREAU OF MINES MINERAL COLLECTION

The mineral collection of the Colorado Bureau of Mines originated through the efforts of the various World Fair's Commissions and the Board of Immigration. Material was assembled by these Commissions to exhibit the mineral resources of the State, and with the establishment of the Bureau of Mines, these mineral collections were put in the Bureau's custody. The only purchase of minerals was that of the Elsner collection, and for the past many years the Bureau of Mines has been entirely dependent upon the generosity of mining men and other interested persons for additions to the exhibit. Several private collections have been loaned for display and it is hoped that, in time, these will be donated to the Bureau of Mines and become the property of the State of Colorado.

The mineral collection occupies three large rooms on the second floor of the Museum Building and is visited each year by more than 100,000 people. A complete record of all specimens has been prepared as to species, donors, counties, mines and localities and entered upon cards which are on file in the collection. Classes from grade schools and high schools in Denver and throughout the State visit the Museum at various times during the year and many of the children are intensely interested in minerals and rocks and, after their visits, frequently start collections of their own. During the year the Bureau of Mines mails several hundred specimens of minerals to school children all over the United States and to some foreign countries. The mineral exhibits are of much interest to mining men, geologists, prospectors and others who are interested in Colorado mining, as the collection contains specimens from practically every mine of consequence that has ever been worked in the State and has specimens of all metals and non-metallic minerals which are found in Colorado. The cases are so arranged that ores of various types are in separate cases, making it possible to study, in one small area, the principal gold, silver, lead, copper and zinc ores, also feldspars, fluorspar, uranium minerals and others. There are thirty-two county cases which contain specimens of ores and minerals produced in each of these counties. In addition, there are several drawers of igneous, sedimentary and metamorphic rocks which may be studied for purposes of comparison. Visitors from all over the world, who have visited this display, claim it to be among the finest of its type in the world.

Richard C. Groom, Associate Curator, is in charge of the mineral collection and the exhibit is open Mondays through Fridays from 9:00 A. M. to 12:00 noon and from 1:00 P. M. to 5:00 P. M.

# PUBLICATIONS OF THE BUREAU OF MINES

## BULLETINS

Bulletin No. 1, Recommendations for Safety Appliance in Mining, Harry A. Lee, Commissioner of Mines, 1896.

Bulletin No. 2, Precious Metal Production for the Year 1898, Harry A. Lee, Commissioner of Mines, 1899.

Bulletin No. 3, Mining Laws, Relative to Bureau of Mines Precious Metal Production, Harry A. Lee, Commissioner of Mines, 1899.

Bulletin No. 4, Precious Metal Production, Harry A. Lee, Commissioner of Mines, 1901.

Bulletin No. 5, Precious Metal Production, Harry A. Lee, Commissioner of Mines, 1902.

Bulletin No. 6, Regulations Relative to the Construction, Equipment and Operation of Metalliferous Mines, Mills and Metallurgical Plants, Recommendations and Mineral Production for 1905, E. L. White, Commissioner of Mines, 1906.

Bulletin No. 7, Federal and State Laws Relating to Mining, Fred Carroll, Commissioner of Mines, 1916.

Supplement to Bulletin No. 7, Mining Laws Enacted by the Twenty-first General Assembly, Fred Carroll, Commissioner of Mines, 1917.

Supplement No. 2 to Bulletin No. 7, Amendments to the Mining Laws Enacted by the Twenty-second General Assembly, Horace F. Lunt, Commissioner of Mines, 1919.

Supplement No. 3 to Bulletin No. 7, Amendments to Laws Relating to Mining Enacted by the Twenty-third General Assembly, Horace F. Lunt, Commissioner of Mines, 1921.

Supplement No. 4 to Bulletin No. 7, Amendments to Laws Relating to mining Enacted by the Twenty-fourth General Assembly, Horace F. Lunt, Commissioner of Mines, 1923.

Bulletin No. 8, The Oil Shales of Northwestern Colorado, Horace F. Lunt, Commissioner of Mines, 1919.

Bulletin No. 9, Mine Safety Standards, Horace F. Lunt, Commissioner of Mines, 1920. Out of print, now embraced in Bulletin No. 11.

Bulletin No. 11, Federal and State Laws Relating to Mining, John T. Joyce, Commissioner of Mines, 1931.

Bulletin No. 12, Mining Laws of Colorado, Edward P. Arthur, Commissioner of Mines, 1942.

Bulletin No. 13, Mining Laws of Colorado, Fred Jones, Commissioner of Mines, 1946.

Bulletin No. 14, Mining Laws of Colorado, Fred Jones, Commissioner of Mines, 1949.

## REPORTS

Report of Bureau of Mines, Colorado, from its establishment in May, 1895, to November 30, 1896, Harry A. Lee, Commissioner of Mines, 1896.

Report for the Year, 1897, Harry A. Lee, Commissioner of Mines, 1898.

Report for the Year, 1898, Harry A. Lee, Commissioner of Mines, 1899.

Biennial Report for the Years 1899 - 1900, Harry A. Lee, Commissioner of Mines, 1900.

Biennial Report for the Years 1901 - 1902, Harry A. Lee, Commissioner of Mines, 1903.

Biennial Report for the Years 1903 - 1904, E. L. White, Commissioner of Mines, 1905.

Biennial Report for the Years 1905 - 1906, E. L. White, Commissioner of Mines, 1907.

Biennial Report for the Years 1907 - 1908, T. J. Dalzell, Commissioner of Mines, 1909.

Biennial Report for the Years 1909 - 1910, T. J. Dalzell, Commissioner of Mines, 1911.

Biennial Report for the Years 1911 - 1912, T. R. Henahen, Commissioner of Mines, 1913.

Biennial Report for the Years 1913 - 1914, T. R. Henahen, Commissioner of Mines, 1914.

Biennial Report for the Years 1915 - 1916, Fred Carroll, Commissioner of Mines, 1916.

Biennial Report for the Years 1917 - 1918, Fred Carroll, Commissioner of Mines, 1919.

Annual Report for the Year 1919, Horace F. Lunt, Commissioner of Mines, 1920.

Annual Report for the Year 1920, Horace F. Lunt, Commissioner of Mines, 1921.

Annual Report for the Year 1921, Horace F. Lunt, Commissioner of Mines, 1922.

Annual Report for the Year 1922, Horace F. Lunt, Commissioner of Mines, 1923.

Annual Report for the Year 1923, John T. Joyce, Commissioner of Mines, 1924.

Annual Report for the Year 1924, John T. Joyce, Commissioner of Mines, 1925.

Annual Report for the Year 1925 was fully prepared but because of lack of funds was not printed. The manuscript is on file in the office of the State Bureau of Mines.

Annual Report for the Year 1926, John T. Joyce, Commissioner of Mines, 1927.

Annual Report for the Year 1927, John T. Joyce, Commissioner of Mines, 1928.

Annual Report for the Year 1928, John T. Joyce, Commissioner of Mines, 1929.

Annual Report for the Year 1929, John T. Joyce, Commissioner of Mines, 1930.

Annual Report for the Year 1930, John T. Joyce, Commissioner of Mines, 1931.

Annual Report for the Year 1931, John T. Joyce, Commissioner of Mines, 1932.

Annual Report for the Year 1932, John T. Joyce, Commissioner of Mines, 1933.

Annual Report for the Year 1933, John T. Joyce, Commissioner of Mines, 1934.

Annual Report for the Year 1934, John T. Joyce, Commissioner of Mines, 1935.

Annual Report for the Year 1935, John T. Joyce, Commissioner of Mines, 1936.

Owing to lack of funds the 1936 Annual Report of the State Bureau of Mines was not published.

Annual Report for the Year 1937, John T. Joyce, Commissioner of Mines, 1938.

Owing to lack of funds the 1938 Annual Report of the State Bureau of Mines was not published.

Annual Report for the Year 1939, Edward P. Arthur, Commissioner of Mines, 1940.

Annual Report for the Year 1941, Edward P. Arthur, Commissioner of Mines, 1942.

Annual Report for the Years 1942 and 1943, Fred Jones, Commissioner of Mines, 1944.

List of Mines for the Year 1944, Fred Jones, Commissioner of Mines, 1945.

List of Mines for the Year 1945, Fred Jones, Commissioner of Mines, 1946.

Annual Report for the Year 1946, Fred Jones, Commissioner of Mines, 1947.

Annual Report for the Year 1947, Fred Jones, Commissioner of Mines, 1948.

Annual Report for 1948 was not published.

Annual Report for the Year 1949, Walter E. Scott, Jr., Commissioner of Mines, 1950.

## Men Employed 1950

| | Mines | | Smelters Mills, etc. | | Quarries | | Placers | | Tunnels Dams | Oil Wells |
|---|---|---|---|---|---|---|---|---|---|---|
| | No. | Men | No. | Men | No. | Men | No. | Men | Men | Men |
| District No. 1 | 80 | 441 | 4 | 221 | 32 | 431 | 2 | 9 | 493 | 303 |
| District No. 2 | 30 | 153 | 10 | 326 | 59 | 721 | 2 | 34 | 502 | 51 |
| District No. 3 | 61 | 2200 | 8 | 468 | 21 | 360 | 6 | 61 | 261 | 75 |
| District No. 4 | 115 | 2030 | 7 | 300 | -- | -- | 2 | 3 | 162 | 68 |
| | 286 | 4824 | 29 | 1315 | 112 | 1512 | 12 | 107 | 1418 | 497 |

## Total Men Employed

| | |
|---|---|
| District No. 1 | 1898 |
| District No. 2 | 1787 |
| District No. 3 | 3425 |
| District No. 4 | 2563 |
| | 9673 |

## Men Employed 1951

| | Mines | | Smelters Mills, etc. | | Quarries | | Placers | | Tunnels Dams | Oil Wells |
|---|---|---|---|---|---|---|---|---|---|---|
| | No. | Men | No. | Men | No. | Men | No. | Men | Men | Men |
| District No. 1 | 75 | 371 | 19 | 247 | 30 | 387 | 2 | 4 | 485 | 650 |
| District No. 2 | 32 | 273 | 9 | 395 | 64 | 646 | 1 | 25 | 210 | 60 |
| District No. 3 | 56 | 2255 | 10 | 486 | 14 | 282 | 4 | 20 | 286 | 300 |
| District No. 4 | 167 | 2680 | 24 | 425 | - | - | 2 | 12 | 193 | 90 |
| | 330 | 5579 | 62 | 1553 | 108 | 1315 | 9 | 61 | 1174 | 1100 |

## Total Men Employed

| | |
|---|---|
| District No. 1 | 2144 |
| District No. 2 | 1609 |
| District No. 3 | 3629 |
| District No. 4 | 3400 |
| | 10,782 |

# 1 9 5 0

## INSPECTIONS AND VISITS

Made by

MINE INSPECTORS, DISTRICTS Nos. 1, 2, 3, 4

*******

| | District 1 | | District 2 | | District 3 | | District 4 | | |
|---|---|---|---|---|---|---|---|---|---|
| | Chapman | | Theobald | | Doyle | | Franz | | |
| 1950 | Insp. | Visits | Insp. | Visits | Insp. | Visits | Insp. | Visits | Total |
| January | 10 | 18 | 9 | 7 | 8 | 18 | 0 | 8 | 78 |
| February | 6 | 11 | 12 | 10 | 7 | 16 | 5 | 20 | 87 |
| March | 10 | 17 | 10 | 24 | 9 | 31 | 17 | 20 | 138 |
| April | 12 | 18 | 11 | 18 | 8 | 25 | 18 | 19 | 129 |
| May | 13 | 32 | 15 | 15 | 12 | 30 | 21 | 23 | 161 |
| June | 10 | 29 | 0 | 43 | 11 | 24 | 19 | 22 | 158 |
| July | 12 | 27 | 10 | 31 | 14 | 33 | 30 | 30 | 187 |
| August | 12 | 48 | 12 | 26 | 7 | 41 | 20 | 37 | 203 |
| September | 8 | 29 | 5 | 30 | 10 | 25 | 20 | 37 | 164 |
| October | 9 | 21 | 16 | 7 | 11 | 24 | 21 | 40 | 149 |
| November | 16 | 33 | 7 | 20 | 8 | 31 | 14 | 33 | 162 |
| December | 12 | 18 | 8 | 16 | 5 | 19 | 10 | 28 | 116 |
| | 130 | 301 | 115 | 247 | 110 | 317 | 195 | 317 | 1732 |

Total Inspections - 550

50 Drilling oil wells inspected

# 1 9 5 1

## INSPECTIONS AND VISITS

Made by

MINE INSPECTORS, DISTRICTS Nos. 1, 2, 3, 4

*******

| | District 1 | | District 2 | | District 3 | | District 4 | | |
|---|---|---|---|---|---|---|---|---|---|
| | Chapman | | Theobald | | Doyle | | Franz | | |
| 1951 | Insp. | Visits | Insp. | Visits | Insp. | Visits | Insp. | Visits | Total |
| January | 27 | 32 | 9 | 28 | 14 | 19 | 17 | 35 | 181 |
| February | 0 | 12 | 22 | 26 | 7 | 19 | 7 | 22 | 115 |
| March | 12 | 36 | 10 | 30 | 9 | 16 | 12 | 31 | 156 |
| April | 15 | 39 | 9 | 24 | 10 | 27 | 15 | 40 | 179 |
| May | 12 | 31 | 15 | 37 | 17 | 20 | 11 | 47 | 190 |
| June | 8 | 49 | 0 | 35 | 13 | 21 | 32 | 49 | 207 |
| July | 19 | 41 | 10 | 29 | 21 | 36 | 42 | 44 | 242 |
| August | 11 | 33 | 11 | 31 | 7 | 17 | 21 | 50 | 181 |
| September | 13 | 48 | 5 | 19 | 12 | 35 | 4 | 37 | 173 |
| October | 18 | 39 | 16 | 23 | 13 | 31 | 13 | 49 | 202 |
| November | 14 | 26 | 5 | 29 | 15 | 30 | 13 | 29 | 161 |
| December | 28 | 24 | 3 | 32 | 5 | 16 | 8 | 38 | 154 |
| | 177 | 410 | 115 | 343 | 143 | 287 | 195 | 471 | 2141 |

Total Inspections - 630

70 Drilling oil wells inspected

## MINING IN 1950

In 1950 the production of gold, silver, copper, lead and zinc, measured in value of recovered materials, was the highest for many years. Zinc showed a slight decline but lead was slightly above 1949 and gold, silver and copper, each approximately 25% greater than in 1949. The largest increase in these materials was in the San Juan area, Red Cliff and Leadville districts. Closing of the mines operated by the American Smelting and Refining Company in the Kokomo district caused a considerable decline in that area.

San Miguel County was the largest producer of gold, while Cripple Creek, which is ordinarily the State's largest gold producing district, had little output during 1950 as there was no market for the mill grade ore. The new Carlton Custom Mill will be ready to receive ore early in 1951.

### DISTRICT NO. 1

Adams County

In Adams County small amounts of gold and silver were recovered by sand and gravel washing plants as by-products.

Boulder County

The Ozark-Mahoning Company and the General Chemical Company at Jamestown were the largest producers of fluorspar and in the milling of fluorspar ore recovered some lead, silver, gold, copper concentrates.

In the Gold Hill district, the Cash Mine produced gold ore, part of which was shipped to the Leadville smelter and the balance to the Front Range Mill at Idaho Springs. A small amount of placer gold was recovered as a by-product at a sand and gravel plant near Gold Hill.

The Consolidated Caribou Silver Mines, Inc., operated the Caribou Mine and a 100 ton mill in the Grand Junction district. Some 7,600 tons of ore were milled, producing concentrates valued at about $60,000. Considerable development work was done underground and one new vein was located.

In the Sugar Loaf district the Wood Mountain, Melvina and Nancy Mines produced gold ores while a small shipment of lead-zinc ore came from the Albion J Mine.

Clear Creek County

In the Argentine district some screened dump ore was shipped from the old Stevens Mine to the Black Eagle Mill near Idaho Springs. A small amount of gold-silver ore was shipped from the Humboldt - Mary Foster group in the Cascade district. Some exploration work was done at the Gold Fissure group at Empire and a small amount of gold was produced at the Silver Spoon Claim.

At Silver Plume, the Terrible Dunderberg group was under development with intermittent production. Some small production came from the Dives-Pelican, Endeavor and Smuggler Mines.

In the Idaho Springs district, the Franklin Mine was a constant shipper of lead and zinc, silver, gold ores during the year. The Dixie Mine continued to be the only substantial producer of gold ore in the county. Considerable exploration and development work was done at the Mattie - King Solomon Group by the Front Range Mines, Inc. The Black Eagle Mill and the Silver Spruce Mill worked on custom ore throughout the year. The Nabob Mine near the old Joe Reynolds Camp produced nearly 1,000 tons of high grade silver ore. The Montana Mining and Development Company cleaned out some of the old tunnels and remodeled the mill at the Lamartine Mine near the head of Trail Creek. The mill treated some 18,000 tons of dump ore.

Gilpin County

A small amount of ore from development work at the We Got 'Em Mine up Silver Creek produced some gold. Very little ore was produced in the Black Hawk, Central City, Nevadaville and Russell Gulch areas. Some ore from the West Notaway Dump was treated at the Gold Ridge Mill and small amounts of gold were recovered on north Clear Creek by hand placering.

Jefferson County

Small amounts of placer gold were recovered as a by-product by sand and gravel washing plants on Clear Creek.

Production of clay in Jefferson County was slightly above 1949 but the production of rip rap and crushed rock fell off considerably.

Summit County

The Wellington Mine near Breckenridge was operated all year by W. L. Davenport and Associates. This and the Minnie Group, also operated by Davenport, shipped ore to the custom mills in Leadville.

A number of mines operated in the Montezuma district and some lead ore was shipped to Leadville mills from the Allen-Emery, Idabelle, Mohawk and other mines. The Chatauqua Mine operated the entire year on a small scale, treating the ore in its own mill. In the Kokomo district, the Victory, Lucky Strike, Wilson and McKinley Mines, which had been operated by the American Smelting & Refining Company since September 1944 were closed in April of this year. Small amounts of ore were produced from the Colonel Sellers, Kimberly and Boston Mines.

## DISTRICT NO. 2

Custer County

Principal production from Custer County was perlite produced by the Alexite Engineering Company and processed in their plant at Florence. Small amounts of lead-silver ores were shipped by lessees working some of the older mines of the county.

Douglas County

Produced feldspar which was processed in plants in Denver. Limestone and silica sand and clay was mined near Franktown.

El Paso County

The Golden Cycle Corporation crushes some 400 tons a day of limestone at Pikeview which comes from their Lennox Breed Limestone Quarries. Most of the crushed limestone is sold for aggregate.

Fremont County

The Consolidated Feldspar Mill at Parkdale operated all year on spars from their own quarries and spars from other quarries in Fremont and Gunnison Counties. This plant also processed lepidolite from Gunnison County.

Two travartine quarries operated near Canon City producing building stone. In Canon City the plant of Colonna & Company made marble chips in nine different colors which are used in the manufacture of decorative flooring.

The quarries of the Ideal Portland Cement Company at Portland operated all year, producing material for their large cement and plaster mills.

A small tonnage of zinc ore was shipped from the Cotopaxi Mine for the only metal mining in Fremont County.

Huerfano and Las Animas Counties

Both counties had one quarry producing clay for brick manufacture.

Park County

The South Platte Dredging Company, with its electrically powered connected bucket, dredge on the South Platte River near Fairplay, ranked fourth in gold production in Colorado. The Platte River Placer, Inc., operated a dry land dredge on the Alma placers during the summer. The Phillips Group, owned and operated by the Buckskin Joe Mines, Ltd., continued to ship ore to the Resurrection Mill at Leadville throughout the year. Small amounts of ore were produced from other sections of the county. At the London Butte property exploration work was continued until near the end of the year.

Teller County

Construction of the new 1,000 ton Carlton Custom Mill of the Golden Cycle Corporation was almost completed in 1950 and will be ready for operation early in 1951. The mill has the latest improvements in equipment and new processes for gold recovery. This, along with many labor saving devices, should make the mill one of the most efficient gold mills in the world. Most of the mines in the Cripple Creek district generally have remained idle or worked only on development work, awaiting such time as they will be able to sell their ore to the Carlton Mill. The Strong

Mine in Victor, owned by the Front Range Mines, Inc., trucked considerable ore to their mill in Clear Creek County, not far above Idaho Springs. At the end of the year, the Ajax and Cresson Mines began hiring men and getting their equipment in good condition so work could resume when the Carlton Mill is completed.

DISTRICT NO. 3

Chaffee County

In the Chalk Creek district, S. E. and W. E. Burleson, repaired the buildings and installed a compressor at the tunnel on the 1,400 foot level of the Mary Murphy Mine. Small amounts of ore were shipped from the Iron Duke and Neglected Mines in the Monarch district.

The limestone quarry of the Colorado Fuel & Iron Company, on Monarch Pass, worked throughout the year. Most of the fluorspar mines of Chaffee County were not in operation during 1950.

Eagle County

The Empire Zinc Division of the New Jersey Zinc Company, continues to be the State's largest producer of zinc. In 1950 the total production of this company was higher than in 1949. The Eagle Mine is completely mechanized and the mill is entirely underground.

Garfield County

Limestone is produced near Glenwood Springs at the principal mine in the county. Principal mining is oil shale produced by the United States Government for their experimental oil shale plant.

Lake County

The General Gold Corporation operated two drag line dredges at their Mt. Elbert placers. Production of gold, silver, copper, lead and zinc in the Leadville district increased sharply over 1949. The Resurrection Mining Company were the principal producers and in 1950 improvements made in their mill raised their capacity and custom ore was handled from many other sections of the State. The 400 ton Leadville Milling unit of the American Smelting & Refining Company was closed April 19, 1950. The Arkansas Valley Smelter of the American Smelting & Refining Company continues to be the only smelter in the State and ore received during 1950 amounted to 101,701 tons. The company worked all year on plant improvements and many new installations were made. The United States Bureau of Mines completed a negotiated contract with the Utah Construction Company and the tunnel heading was again started on September 20th.

Mineral County

The Emperius Mining Company operated its group of mines and its 100 ton selective flotation mill continuously and at a higher rate of production than in 1949. This company ranked fourth in the State in silver production and the combined lead and

zinc value exceeded that of the silver. Development work by the company during the year included 702 feet of raises over 2,000 feet of drifts and 1,550 feet of new tunnel.

Pitkin County

The principal producer in the Aspen district during the year was the Midnight Mine. Most of the ore produced was milled at the company mill although some crude ore was shipped directly to the Leadville smelter. A few tons of lead ore were shipped from mines in the Lincoln Gulch and Redstone districts.

Saguache County

At Bonanza, the Antoro Mine, operated by S. E. and W. E. Burleson, produced ore which was shipped to the custom mills at Leadville. W. J. Costello continued to operate the Old Rawley group, shipping his ore also to Leadville.

DISTRICT NO. 4

Dolores County

The Rico Argentine Mining Company, which had been closed down for a number of months, did development work for the first six months of 1950, and in July resumed regular mining and milling operations. This company is an important producer of zinc, lead and silver.

Gunnison County

At the Keystone Mine, near Crested Butte, Park City Consolidated Mines continued an exploration and development project started last year. The Slate River Mining Company operated their Eureka Mine, 18 miles northwest of Crested Butte, during the summer months. The Star Mine, in the Tin Cup district, produced approximately 150 tons of ore containing principally lead with some zinc, silver and gold. At White Pine, the Akron and Erie Mines and 110 ton flotation mill of the Callahan Zinc Lead Company operated the entire year, but for part of the year on a curtailed basis. Considerable development work and rehabilitation was done by this company during the year.

Hinsdale County

Some small amounts of ore were produced near Lake City.

Ouray County

The Idarado Mining Company, from their mill at the Treasury Tunnel, were the second largest producers of silver, lead and zinc in the State and the third largest producers of gold. The Genessee Tunnel was operated throughout 1950 and shipped silver, copper, lead and zinc, lead-silver-copper ores. A number of other mines had a small production during the year. Mine production at the Idarado Mill came from the various properties controlled by the Idarado Mining

Company. The Idarado Mining Company continued expansion of operations thru the Meldrum Tunnel. The Camp Bird in the Sneffels district was again the leading producer of gold, silver, copper, lead and zinc in Ouray County. This mine, at one time owned by Tom Walsh, has been famous as a gold, silver producer for over fifty years, but, recently, has begun yielding considerable zinc-lead ores, containing appreciable amounts of gold, silver and copper. Near the town of Ouray, some production came from the Bachelor, Mickey Breen, Newsboy and other properties. The 300 ton custom mill of the American Zinc, Lead & Smelting Company at Ouray treated ores from the district and also purchased ores from Hinsdale, San Juan, San Miguel and Dolores Counties.

San Juan County

The Shenandoah-Dives Mining Company at Silverton continued to be, by far, the largest producer of ore in San Juan County. The company operates a 700 ton mill and, in addition to their own ore, handled some custom ore from other mines. The Pride of the West flotation mill operated throughout 1950 on ores from the Great Eastern, Pride of the West and Green Mountain Mines. The Highland Mary Mine and Mill operated for a number of months when not hampered by snow and bad weather. The Old Hundred Gold Mining Company repaired its aerial tramway and also repaired its own mill. Ore from the Garry Owen Mine of this company was shipped to custom mills. In the Eureka district, the Lead Carbonate Mine and 40 ton mill continued to operate and nearly doubled its production over 1949. The Columbus group shipped some 2,000 tons of ore to custom mills, also milled some ore in the small mill at the mine. The Bonita Mining and Development Company acquired several groups of property, worked mostly on reopening and reconditioning old mine workings, installing equipment, etc. The United States Bureau of Mines did some exploratory drilling in the Ross Basin area during the summer months.

San Miguel County

The Silver Bell Mine at Ophir produced throughout the year, treated the ore at their own 150 ton flotation mill. A screening, washing and sorting plant was built during the year. Production at the mine was somewhat hampered in December when a fire destroyed a compressor house and change house. The Telluride Mines, Inc., operating the Smuggler, Union-Montana group, considerably increased their ore production during the year and carried on a great many feet of development work. New equipment was installed in the mill for better recovery. Lessees working on the Old Tomboy Mine Dump milled small lots of ore during the summer months which produced gold, silver, copper, lead and zinc.

Production figures on all uranium bearing ores produced in Colorado are restricted by the Atomic Energy Commission, and neither tonnages of ore mined, nor the value of the ore are available.

## MINING IN 1951

During 1951 the production of gold, silver, copper, lead and zinc increased more than 30% over the 1950 production. Higher average prices for copper, lead and zinc accounted for the increase in production value. Gold output declined considerably below the 1950 production in spite of the reopening of some gold mines in the Cripple Creek area and the completion of the Carlton Mill to handle custom ores. Zinc output for 1951 was the largest in quantity since the first World War and said to be the highest in value since the commercial recovery of zinc from Colorado ores was begun. Lead production again showed a substantial increase over 1950.

The Idarado Mining Company, operating in Ouray and San Miguel Counties, was the largest producer of gold and silver and copper in Colorado. Idarado was second in the production of lead and zinc. The Resurrection Group at Leadville was the State's largest producer of lead and the second largest producer of gold. The Eagle Mine of the Empire Zinc Division, Gilman, was the largest producer of zinc and second in the production of silver. Telluride Mines, Inc., operating the Smuggler-Union Group at Telluride were the State's third largest producers of gold, lead and zinc. The Shenandoah-Dives Mines at Silverton were third in the State in the production of silver.

During 1951 some 21 mines in Colorado had received assistance loans from the Defense Minerals Exploration Administration for the exploration of copper, lead and zinc.

### DISTRICT NO. 1

Adams County

Placer gold was recovered as a by-product from the sand and gravel plants operated on gravel bars along Clear Creek by Kerkling and Slensken, Brannan Sand and Gravel Company, Superior Sand and Gravel Company and the Metropolitan Gravel Company.

Boulder County

Consolidated Caribou Silver Mines, Inc., produced most of the silver coming from Boulder County from ores concentrated in their own mill. This property also yielded gold, lead and a small amount of copper. The Ozark-Mahoning and General Chemical Companies shipped lead, silver, gold, copper concentrates removed as a by-product in the treatment of their fluorspar ores.

Clear Creek County

The Terrible-Dunderberg and the Mendota Frostburg Mines at Silver Plume were the principal producers of lead, zinc ore in the county. The Mendota ore was treated at the Silver Spruce Mill at Idaho Springs and the Terrible-Dunderberg ore partly at the Black Eagle Mill near Idaho Springs or at the Resurrection Mill, Leadville. The Montana Mining and Development Company continued to operate their mill on Lamartine Dump ore. The Nabob Mine continued to produce high grade silver-lead ore. The mill of the Front Range Mining Company at Dumont had treated company ore from the Mattie and King Solomon Mines in Clear Creek County and custom ore from mines in

Boulder County. The Grizzly Mine and the Burleigh Tunnel in the Silver Plume area did exploration work under a Defense Minerals participation contract.

Gilpin County

United Mining and Leasing Corporation, operating the Gilpin Eureka Group, did exploratory work under a Defense Minerals contract. Small amounts of ore and concentrate were shipped from the West Notaway Dump, the Smith Mine at Black Hawk and the We Got 'Em Mine on Silver Creek.

Jefferson County

Placer gold was recovered as a by-product from sand and gravel plants operating along Clear Creek.

Larimer County

In the Prairie Divide District some zinc ore containing silver and copper were shipped from the old Copper King Mine.

Summit County

In 1951 the production of gold, silver, copper, lead and zinc was the smallest for many years due to the closing of the Victory Group at Kokomo. There was little or no production in that area during the first half of 1951 but, towards the end of the year, both the Kimberly and Colonel Sellers Mines were shipping ore. In Breckenridge the principal producer was the Wellington Group which shipped zinc, lead, silver ore to the Resurrection Mill at Leadville. A number of other properties in the Breckenridge area shipped small amounts of ore during the year. In Montezuma, part of the ore produced was treated locally at the Teller Basin and Plymouth Mills, while part was shipped to custom mills in Leadville. The producing mines included the Allen-Emery, the Belle of California, Chatauqua, Florado, Idabelle, Paymaster, Sts. John and others.

## DISTRICT NO. 2

Custer County

The Defender Mining Company worked their mine for several months shipping the ore produced to Leadville. Some work was done in the Lady Franklin Mine under the Defense Minerals Exploration contract. The Alexite Engineering Company continued to produce perlite at their quarry near Rosita.

Fremont County

The Dolomite Quarry near Canon City shipped some 400 to 500 tons of material daily to the Colorado Fuel & Iron Company at Pueblo. Sturbaum Quarry at Canon City shipped approximately 75 tons a day of ganister to Colorado Fuel & Iron Company, Pueblo, and approximately 350 tons a month of silica sand. Colonna &

Company, in their plant at Canon City, produced a variety of marble chips for terrazzo decorative flooring. Some slag from the old smelter dump at Florence was shipped which contained zinc, lead and silver. The Parkdale Mill of the Consolidated Feldspar Company operated throughout the year, producing feldspar and mica.

Park County

The South Platte Dredging Company operated its electrically powered dredge on the South Platte River, near Fairplay, throughout 1951 and ranked fourth in Colorado gold production. The Phillips Group operated by the Buckskin Joe Mines, Ltd., continued to ship gold, zinc, lead, silver ore to the Resurrection Mill at Leadville. Small shipments of ore were made from numerous other mines in the county, including the Mineral Park, Shelby, Ten Forty, Wheeler and other properties. Some diamond drill exploration work was done at the Shelby-Johnson property, financed by a Defense Minerals Exploration contract.

Teller County

The new thousand ton Carlton Custom Mill of the Golden Cycle Corporation started on March 12, 1951. The mill was designed to include many improvements in methods of ore handling and gold recovery, and several months of operation, with less than capacity, were made to test and make the proper adjustments of mill to achieve the best results. The continued rise in the cost of materials and labor, with no change in the price of gold, retarded the opening of many mines that have been shut down awaiting the completion of the mill. The principal ore producers in the district in 1951 were the Ajax Mine, Cresson, United Gold Mines, Strong Mine, Stratton Estate, Forest Queen Group, Globe Hill and others. A number of dumps were worked and shipped to the new Carlton Mill.

## DISTRICT NO. 3

Chaffee County

Gold, silver, lead, zinc ore from the Mary Murphy Mine at Romley was shipped to the Resurrection Mill at Leadville. A similar type ore was also shipped from the Stonewall Mine. Some exploratory work was done at the Madonna Mine near Salida, under a Defense Minerals Exploration contract. The Monarch Lime Quarry of the Colorado Fuel & Iron Company worked continuously except for two months when they were down to repair equipment. The new Calcium Plant at Salida of the Magnuson & Son went into operation during 1951. The Poncha Springs Fluorspar property, operated by the Reynolds Aluminum Company, got into production during the year.

Eagle County

Output of zinc by the Empire Zinc Division of the New Jersey Zinc Company was larger than any previous year and this company continues to be the largest producer of zinc in the State, in addition to being an important producer of lead, silver, gold and copper. More than 1,000 tons of ore are milled daily at this property.

Garfield County

The Glenwood Quarry, owned by the Frank H. Norberg Company, produced large amounts of limestone. A small amount of zinc-lead-silver ore was shipped from the Old Grandview property.

Lake County

The gold production of Lake County decreased slightly, caused by the idleness of the Mount Elbert Placer Group. Production of lead, copper and silver also decreased slightly but the output of zinc increased over 1950. The Resurrection Mining Company opened many of the mines which they control and their mill worked continuously throughout the year on their own ore and, in addition, purchased considerable amounts of custom ore from Lake, Park, Clear Creek, Summit, Saguache, Chaffee, Gilpin and Hinsdale Counties. The Arkansas Valley Smelter of the American Smelting & Refining Company purchased approximately 111,000 tons of ores as compared with 101,000 tons in 1950. The mining division of the American Smelting & Refining Company are continuing development work on the properties they control and shipped considerable ore to the smelter from this work. The Leadville Drainage Tunnel, driven under the supervision of the United States Bureau of Mines, reached its principal objective during the year and the peak flow of water amounted to almost 3,800 gallons per minute. Many of the mines along the Tunnel are being drained at a satisfactory rate.

Mineral County

The Emperius Mining Company operated their mill and mines throughout the year. This company is the only large producer in the county.

Pitkin County

Midnight Mining Company continued to operate its mine and run its mill intermittently. This property has been a consistent producer for more than twenty years. Herron Brothers produced silver-lead ores from their properties at Aspen. Some ore was shipped by the C & M Mining Company near Red Stone and from the Mt. Hope Mine in the Independence District.

Saguache County

The Antoro Mine at Bonanza worked by S. E. and W. E. Burleson, was again the county's largest producer, with the Rawley Mine, leased by M. J. Costello, being second. Both properties shipped their ore to custom mills and the smelter at Leadville. Other production came from the Cora, Little Jennie, Michigan and Silver Creek Mines at Bonanza. Other producers in the county were Silver Hill Mine in the Big Park District and the Yukon Belle in the Cochetopa District.

DISTRICT NO. 4

Dolores County

The Rico Argentine Mining Company at Rico operated their 135 ton mill continuously in 1951 with a much larger production of zinc, lead and silver than in 1950. Some lead, silver ore was shipped from the Forrest and Wedge Mine, and the Saint Louis Mine produced some high grade gold ore.

Gunnison County

The Callahan Zinc-Lead Company operated its mines at Akron throughout the year and was a steady shipper of zinc concentrates and lead-silver concentrates. Exploration at their Akron-Erie Mines was expanded under a Defense Minerals contract. At the Keystone Mine near Crested Butte, Park City Consolidated Mine and the American Smelting & Refining Company, operating under a joint venture, carried on development work throughout the year. This development work ore has been stock piled at the mine. Zinc, silver, lead ore was shipped from the Daisy Group, the Eureka Mine of the Platte River Mining Company and the Chatauqua Mine of the Evans Basin Mining Company. Some gold and silver ores were shipped from the Forest Queen and Carter Mine.

Hinsdale County

The Standard Silver Lead Mines reconditioned a lot of the mine workings of properties which they hold and rehabilitated the mill at the Ute and Ulay Group. Small amounts of ore were shipped from the Gold Quartz, Hoosier Boy and Yellow Medicine.

Ouray County

Camp Bird Mine near Sneffles continued to be the principal producer of metals in Ouray County. All of the ore was milled at their own selective flotation mill. Small producers in the county included the Altoona, Columbus, Farrish, Governor, Mickey Breen, Mineral Farms, Stanley and others. The American Zinc, Lead & Smelting Company continued to buy ore for treatment in its custom flotation mill at Ouray

San Juan County

The Shenandoah-Dives Mining Company operated its 700 ton mill continuously throughout 1951 from ores of their own mines, plus custom ore which they purchased. The total tonnage milled in 1951 was larger than in 1950. The Lead Carbonate Mine and 40 ton mill operated throughout the year. The Old One Hundred Consolidated Gold Mining Company produced substantial amounts of ore, part of which was shipped to custom mills and part of which was treated in their own mill, after it had been reconditioned. The old Sunnyside Mill site at Eureka has been cleaned up, usable buildings at the mill were moved away and old, deteriorated buildings, having no value, were burned. A number of mines in San Juan County received exploration loans from the Defense Minerals Exploration. Among those was the Lead Carbonate Mine, Silver Boy Mine, Henrietta Mine, Treasure Mountain Gold Mining Company and the Silver Queen properties.

San Miguel County

The production of lead and zinc increased slightly over the record high production of 1950. However, the production of gold, silver and copper all decreased. The Idarado Mining Company increased the tonnage of ore mined and milled during the year and continued its large exploration and development campaign. Telluride Mines, Inc., operating the Smuggler-Union Group at Telluride, completed the ore pass from the mill level tunnel to the mine workings 1,100 feet above. This new rise permits the underground transportation for most ore rather than sending over the aerial tramways as in the past. The capacity of the selective flotation mill has been increased and production of zinc, lead and copper was larger than in 1950.

Production figures on all uranium bearing ores produced in Colorado are restricted by the Atomic Energy Commission and neither tonnages of ore mined nor the value of the ore are available.

## DISTRICT NO. 1

Wm. Harvey Chapman, Inspector

| | 1950 | 1951 |
|---|---|---|
| **ADAMS COUNTY** | | |
| Area, 1,247 Square Miles | | |
| Gold Production..... | $ 31,815.00 | $ 44,765.00 |
| Silver Production..... | 124.00 | 162.00 |
| TOTAL | $ 31,939.00 | $ 44,927.00 |
| **BOULDER COUNTY** | | |
| Area, 753 Square Miles | | |
| Gold Production..... | $ 57,855.00 | $ 26,215.00 |
| Silver Production..... | 69,260.00 | 108,883.00 |
| Copper Production..... | 5,824.00 | 6,292.00 |
| Lead Production..... | 41,850.00 | 71,968.00 |
| Zinc Production..... | 852.00 | - - - |
| TOTAL | $ 175,641.00 | $ 213,358.00 |
| Fluorspar..... | $ 181,906.00 | $ 215,997.00 |
| Building Stones..... | 78,084.00 | 130,715.00 |
| Tungsten..... | 8,650.00 | 127,776.00 |
| TOTAL | $ 268,640.00 | $ 474,488.00 |
| Total Production for County | $444,281.00 | $ 687,846.00 |
| **CLEAR CREEK COUNTY** | | |
| Area, 394 Square Miles | | |
| Gold Production..... | $ 115,430.00 | $ 63,070.00 |
| Silver Production..... | 76,246.00 | 77,647.00 |
| Copper Production..... | 5,408.00 | 4,356.00 |
| Lead Production..... | 84,780.00 | 135,286.00 |
| Zinc Production..... | 43,168.00 | 173,628.00 |
| TOTAL | $ 325,032.00 | $ 453,987.00 |
| **GILPIN COUNTY** | | |
| Area, 149 Square Miles | | |
| Gold Production..... | $ 2,940.00 | $ 5,985.00 |
| Silver Production..... | 285.00 | 1,122.00 |
| Lead Production..... | 810.00 | 2,768.00 |
| TOTAL | $ 4,035.00 | $ 9,875.00 |

| | 1950 | 1951 |
|---|---|---|

JACKSON COUNTY
Area, 1,623 Square Miles

Produced in 1950 Vermiculite valued at $ 11,000.00

JEFFERSON COUNTY
Area, 786 Square Miles

| | | |
|---|---|---|
| Gold Production..... | $ 4,795.00 | $ 9,205.00 |
| Silver Production..... | 19.00 | 38.00 |
| TOTAL | $ 4,814.00 | $ 9,243.00 |
| Feldspar Production..... | $ 956.00 | $ 554.00 |
| Clay Production..... | 258,341.00 | 323,349.00 |
| Crushed Rock and Rip Rap..... | 625,486.00 | 330,365.00 |
| TOTAL | $ 884,783.00 | $ 654,268.00 |
| Total Production for County | $ 889,597.00 | $ 663,511.00 |

LARIMER COUNTY
Area, 2,619 Square Miles

| | | |
|---|---|---|
| Gold Production..... | $ 385.00 | $ - - - |
| Silver Production..... | 17.00 | 10.00 |
| Zinc Production..... | - - - | 2,912.00 |
| TOTAL | $ 402.00 | $ 2,922.00 |
| Limestone Production..... | $ 100,970.00 | $ 92,927.00 |
| Gypsum Production..... | 98,500.00 | 341,168.00 |
| Sandstone Production..... | 4,540.00 | 44,024.00 |
| Alabaster Production..... | 2,250.00 | 2,000.00 |
| TOTAL | $ 206,260.00 | $ 480,119.00 |
| Total Production for County | $ 206,662.00 | $ 483,041.00 |

SUMMIT COUNTY
Area, 615 Square Miles

| | | |
|---|---|---|
| Gold Production..... | $ 29,540.00 | $ 12,847.00 |
| Silver Production..... | 138,775.00 | 59,842.00 |
| Copper Production..... | 7,488.00 | 2,420.00 |
| Lead Production..... | 461,970.00 | 214,520.00 |
| Zinc Production..... | 975,824.00 | 162,344.00 |
| TOTAL | $ 1,613,597.00 | $ 451,971.00 |

Some uranium minerals have been produced in Boulder, Gilpin and Larimer Counties but production figures are restricted by Atomic Energy Commission.

## DISTRICT NO. 2

Fred E. Theobald, Inspector

| | 1950 | 1951 |
|---|---|---|
| **CUSTER COUNTY** | | |
| Area, 737 Square Miles | | |
| Gold Production..... | $ 35.00 | $ 210.00 |
| Silver Production..... | 315.00 | 915.00 |
| Lead Production..... | 1,350.00 | 5,536.00 |
| Zinc Production..... | - - - | 1,820.00 |
| TOTAL | $ 1,700.00 | $ 8,481.00 |
| Perlite Production..... | $ 100,967.00 | $ 134,197.00 |
| Total Production for County | $ 102,667.00 | $ 142,678.00 |
| **DOUGLAS COUNTY** | | |
| Area, 843 Square Miles | | |
| Feldspar Production..... | $ 141,544.00 | $ 69,881.00 |
| Limestone, Clay & Sand..... | 80,625.00 | 89,496.00 |
| TOTAL | $ 222,169.00 | $ 159,377.00 |
| **EL PASO COUNTY** | | |
| Area, 2,158 Square Miles | | |
| Limestone Production..... | $ 25,843.00 | $ 98,400.00 |
| Crushed Rock..... | 948.00 | 48,600.00 |
| Clay..... | 7,132.00 | 5,668.00 |
| TOTAL | $ 33,923.00 | $ 152,668.00 |
| **FREMONT COUNTY** | | |
| Area, 1,562 Square Miles | | |
| Gold Production..... | $ 35.00 | $ - - - |
| Silver Production..... | 19.00 | 19.00 |
| Zinc Production..... | 1,136.00 | 364.00 |
| Lead Production..... | - - - | 346.00 |
| TOTAL | $ 1,190.00 | $ 729.00 |
| Feldspar, etc. Production.... | $ 399,698.00 | $ 579,537.00 |
| Travertine Production..... | 43,615.00 | 66,539.00 |
| Terrazzo Chips Production.... | 38,336.00 | 52,500.00 |
| Limestone Production..... | 391,620.00 | 355,023.00 |
| Gypsum Production..... | 54,148.00 | 143,172.00 |
| Dolomite Production..... | 75,000.00 | 108,290.00 |
| Ganister Production..... | 45,500.00 | 23,848.00 |
| Granite Production..... | 1,650.00 | 1,200.00 |
| Clay Production..... | 33,211.00 | 77,762.00 |
| TOTAL | $ 1,082,778.00 | $ 1,407,871.00 |
| Total Production for County | $ 1,083,968.00 | $ 1,408,600.00 |

| | 1950 | 1951 |
|---|---|---|
| HUERFANO COUNTY<br>Area, 1,578 Square Miles | | |
| Fire Clay Production..... | $ 10,000.00 | $ 10,000.00 |
| LAS ANIMAS COUNTY<br>Area, 4,794 Square Miles | | |
| Fire Clay Production..... | $ 60,000.00 | $ 74,760.00 |
| OTERO COUNTY<br>Area, 1,267 Square Miles | | |
| Alabaster Production..... | $ 19.000.00 | $ 10,000.00 |
| PARK COUNTY<br>Area, 2,166 Square Miles | | |
| Gold Production..... | $ 571,235.00 | $ 464,310.00 |
| Silver Production..... | 10,284.00 | 9,160.00 |
| Copper Production..... | 5,824.00 | 7,260.00 |
| Lead Production..... | 15,660.00 | 21,452.00 |
| Zinc Production..... | 72,420.00 | 94,640.00 |
| TOTAL | $ 675,423.00 | $ 596,822.00 |
| PUEBLO COUNTY<br>Area, 2,401 Square Miles | | |
| Clay..... | $ 139,896.00 | $ 345,367.00 |
| TELLER COUNTY<br>Area, 544 Square Miles | | |
| Gold Production..... | $ 202,265.00 | $ 969,465.00 |
| Silver Production..... | 1,754.00 | 4,196.00 |
| TOTAL | $ 204,019.00 | $ 973,661.00 |

## DISTRICT NO. 3

John W. Doyle, Inspector

| | | 1950 | 1951 |
|---|---|---|---|
| **CHAFFEE COUNTY** | | | |
| Area, 1,039 Square Miles | | | |
| Gold Production..... | $ | 7,595.00 | $ 1,400.00 |
| Silver Production..... | | 2,535.00 | 505.00 |
| Copper Production..... | | 416.00 | - - - |
| Lead Production..... | | 21,330.00 | 5,536.00 |
| Zinc Production..... | | 568.00 | 6,916.00 |
| TOTAL | $ | 32,444.00 | $ 14,357.00 |
| Limestone Production..... | $ | 800,500.00 | $ 900,000.00 |
| Calcium Production..... | | 25,600.00 | 25,000.00 |
| Granite Production..... | | 1,500.00 | 1,200.00 |
| Feldspar Production..... | | 9,122.00 | 71,972.00 |
| TOTAL | $ | 836,722.00 | $ 998,172.00 |
| Total Production for County | $ | 869,166.00 | $ 1,012,529.00 |
| **CONEJOS COUNTY** | | | |
| Area, 1,271 Square Miles | | | |
| Turquoise Production | $ | 3,150.00 | $ 3,200.00 |
| **EAGLE COUNTY** | | | |
| Area, 1,685 Square Miles | | | |
| Gold Production..... | $ | 197,260.00 | $ 97,755.00 |
| Silver Production..... | | 605,896.00 | 373,594.00 |
| Copper Production..... | | 135,616.00 | 134,552.00 |
| Lead Production..... | | 569,700.00 | 1,478,804.00 |
| Zinc Production..... | | 5,667,504.00 | 10,628,800.00 |
| TOTAL | $ | 7,175,976.00 | $12,713,505.00 |

| | 1950 | 1951 |
|---|---|---|
| **GARFIELD COUNTY** | | |
| Area, 2,994 Square Miles | | |
| Gold Production..... | $ - - - | $ 35.00 |
| Silver Production..... | - - - | 143.00 |
| Lead Production..... | - - - | 346.00 |
| Zinc Production..... | - - - | 1,456.00 |
| TOTAL | - - - | $ 1,980.00 |
| Limestone Production..... | $ 49,660.00 | $ 32,166.00 |
| Total Production for County | $ 49,660.00 | $ 34,146.00 |
| **LAKE COUNTY** | | |
| Area, 380 Square Miles | | |
| Gold Production..... | $ 735,280.00 | $ 676,305.00 |
| Silver Production.. ..... | 253,987.00 | 246,495.00 |
| Copper Production..... | 63,232.00 | 75,020.00 |
| Lead Production..... | 1,725,840.00 | 2,074,616.00 |
| Zinc Production.. ..... | 2,099,328.00 | 2,964,416.00 |
| Molybdenum (estimated)..... | 13,000,000.00 | 22,500,000.00 |
| TOTAL | $17,877,667.00 | $28,536,852.00 |
| Monazite, Pyrite, Tin and Tungsten ore produced as by-products of Molybdenum at the Climax Mine. | | |
| **MINERAL COUNTY** | | |
| Area, 921 Square Miles | | |
| Gold Production..... | $ 28,105.00 | $ 28,140.00 |
| Silver Production..... | 312,466.00 | 214,182.00 |
| Copper Production..... | 14,144.00 | 12,100.00 |
| Lead Production..... | 383,940.00 | 403,782.00 |
| Zinc Production..... | 247,932.00 | 324,688.00 |
| TOTAL | $ 986,587.00 | $ 982,892.00 |
| Fluorspar Production..... | $ 107,400.00 | - - - |
| Total Production for County | $ 1,093,987.00 | $ 982,892.00 |
| **PITKIN COUNTY** | | |
| Area, 974 Square Miles | | |
| Gold Production..... | $ 400.00 | $ 595.00 |
| Silver Production..... | 27,938.00 | 9,179.00 |
| Lead Production..... | 18,000.00 | 19,722.00 |
| Zinc Production..... | 5,964.00 | 10,556.00 |
| TOTAL | $ 52,482.00 | $ 40,052.00 |

SAGUACHE COUNTY
Area, 3,144 Square Miles

| | 1950 | 1951 |
|---|---|---|
| Gold Production..... | $ 24,115.00 | $ 4,165.00 |
| Silver Production..... | 27,461.00 | 22,285.00 |
| Copper Production..... | 9,984.00 | 17,908.00 |
| Lead Production..... | 109,080.00 | 135,630.00 |
| Zinc Production..... | 65,888.00 | 97,916.00 |
| TOTAL | $ 236,528.00 | $ 277,906.00 |

Uranium minerals are produced in Garfield and Rio Blanco Counties but production figures are restricted by Atomic Energy Commission.

## DISTRICT NO. 4

G. A. Franz, Jr., Inspector

| | | 1950 | 1951 |
|---|---|---|---|
| **DOLORES COUNTY** | | | |
| Area, 1,028 Square Miles | | | |
| Gold Production..... | $ | 2,485.00 | $ 7,700.00 |
| Silver Production..... | | 65,829.00 | 119,387.00 |
| Copper Production..... | | 14,560.00 | 24,684.00 |
| Lead Production..... | | 307,260.00 | 771,926.00 |
| Zinc Production..... | | 387,660.00 | 919,828.00 |
| TOTAL | $ | 777,794.00 | $ 1,843,525.00 |
| **GUNNISON COUNTY** | | | |
| Area, 3,242 Square Miles | | | |
| Gold Production..... | $ | 3,325.00 | $ 3,045.00 |
| Silver Production..... | | 66,323.00 | 108,378.00 |
| Copper Production..... | | 8,820.00 | 12,100.00 |
| Lead Production..... | | 188,190.00 | 343,232.00 |
| Zinc Production..... | | 282,580.00 | 456,820.00 |
| TOTAL | $ | 548,738.00 | $ 923,575.00 |
| Beryl..... | $ | 8,100.00 | $ 2,817.00 |
| Mica, etc. ..... | | 2,357.00 | 8,772.00 |
| Feldspar..... | | - - - | - - - |
| TOTAL | $ | 10,457.00 | $ 11,589.00 |
| Total Production for County | $ | 559,195.00 | $ 935,164.00 |
| **HINSDALE COUNTY** | | | |
| Area, 1,057 Square Miles | | | |
| Gold Production..... | $ | 805.00 | $ 305.00 |
| Silver Production..... | | 1,554.00 | 829.00 |
| Copper Production..... | | 416.00 | 968.00 |
| Lead Production..... | | 6,210.00 | 4,152.00 |
| Zinc Production..... | | 1,420.00 | 2,548.00 |
| TOTAL | $ | 10,405.00 | $ 8,847.00 |
| **LA PLATA COUNTY** | | | |
| Area, 1,689 Square Miles | | | |
| Gold Production..... | $ | 2,135.00 | - - - |
| Silver Production..... | | 1,306.00 | - - - |
| TOTAL | $ | 3,441.00 | - - - |

| | 1950 | 1951 |
|---|---|---|
| **MONTEZUMA COUNTY** | | |
| Area, 2,095 Square Miles | | |
| Gold Production | $ 7,525.00 | - - - |
| Silver Production | 1,068.00 | - - - |
| Copper Production | 416.00 | - - - |
| TOTAL | $ 9,009.00 | - - - |
| **OURAY COUNTY** | | |
| Area, 540 Square Miles | | |
| Gold Production | $ 175,000.00 | $ 75,880.00 |
| Silver Production | 215,421.00 | 116,947.00 |
| Copper Production | 79,040.00 | 123,904.00 |
| Lead Production | 297,000.00 | 419,006.00 |
| Zinc Production | 258,156.00 | 400,764.00 |
| TOTAL | $ 1,024,617.00 | $ 1,136,501.00 |
| **SAN JUAN COUNTY** | | |
| Area, 392 Square Miles | | |
| Gold Production | $ 486,750.00 | $ 349,930.00 |
| Silver Production | 539,545.00 | 410,284.00 |
| Copper Production | 143,520.00 | 266,684.00 |
| Lead Production | 915,840.00 | 1,568,072.00 |
| Zinc Production | 367,780.00 | 670,488.00 |
| TOTAL | $ 2,453,255.00 | $ 3,265,458.00 |
| **SAN MIGUEL COUNTY** | | |
| Area, 1,283 Square Miles | | |
| Gold Production | $ 1,876,630.00 | $ 1,236,200.00 |
| Silver Production | 742,261.00 | 638,972.00 |
| Copper Production | 812,448.00 | 866,360.00 |
| Lead Production | 2,142,990.00 | 2,819,554.00 |
| Zinc Production | 2,522,204.00 | 3,358,992.00 |
| TOTAL | $ 8,096,533.00 | $ 8,920,078.00 |

Uranium minerals are produced in Dolores, Mesa, Montezuma, Montrose and San Miguel Counties but production figures are restricted by Atomic Energy Commission.

## METAL PRODUCTION IN COLORADO

| | 1950 | 1951 |
|---|---|---|
| Gold | $ 4,563,650.00 | $ 4,077,605.00 |
| Silver | 3,160,688.00 | 2,523,174.00 |
| Copper | 1,306,656.00 | 1,554,608.00 |
| Lead | 7,291,890.00 | 10,496,256.00 |
| Zinc | 13,000,384.00 | 20,279,896.00 |
| Molybdenum (estimated) | 13,000,000.00 | 22,500,000.00 |
| Tungsten (estimated) | 611,650.00 | 1,187,601.00 |
| Tin (estimated) | 15,700.00 | 26,500.00 |
| Miscellaneous | 668,700.00 | 667,050.00 |
| TOTAL | $ 43,619,318.00 | $ 63,312,690.00 |

## NON-METALLIC MINERAL PRODUCTION

| | | |
|---|---|---|
| Alabaster | $ 21,250.00 | $ 12,700.00 |
| Calcium (soil conditioner) | 25,600.00 | 25,000.00 |
| Clays | 488,895.00 | 881,654.00 |
| Feldspar | 551,290.00 | 721,559.00 |
| Fluorspar | 289,306.00 | 215,997.00 |
| Gypsum | 152,648.00 | 484,340.00 |
| Limestone | 1,453,905.00 | 1,631,554.00 |
| Marble | 71,951.00 | 119,039.00 |
| Mica | 1,357.00 | 8,675.00 |
| Monozite, etc. | 1,500.00 | 3,000.00 |
| Perlite | 100,967.00 | 134,198.00 |
| Silica Rock | 45,550.00 | 26,848.00 |
| Stone, Building | 85,775.00 | 177,140.00 |
| Stone, Crushed | 626,434.00 | 378,965.00 |
| Turquoise | 3,150.00 | 3,200.00 |
| Vermiculite | 11,000.00 | - - - - |
| TOTAL | $ 3,930,578.00 | $ 4,823,869.00 |
| GRAND TOTAL | $ 47,549,896.00 | $ 68,136,559.00 |

# SUMMARY OF ACCIDENTS

## 1950

| | | |
|---|---|---|
| **FATALS** | | |
| Mines | 6 | |
| Shaft | 1 | |
| Surface | 1 | |
| Mills and Smelters | 4 | |
| Quarries | 1 | |
| Placers | 0 | |
| Oil | 2 | |
| | | 15 |
| **OCCUPATIONAL DISEASES** | | 7 |
| **PARTIAL DISABILITY** | | |
| Mines | 14 | |
| Mills | 3 | |
| Quarries | 1 | |
| | | 18 |
| **TIME LOST, 2 - 14 days** | | |
| Underground | 337 | |
| Shaft | 8 | |
| Surface | 81 | |
| Placers | 1 | |
| Mills | 54 | |
| Quarries | 28 | |
| | | 509 |
| **TIME LOST - over 14 days** | | |
| Underground | 125 | |
| Shaft | 6 | |
| Surface | 45 | |
| Placers | 2 | |
| Mills | 29 | |
| Quarries | 24 | |
| | | 229 |

TOTAL Number of Accidents in 1950 ..... 778

## 1950

## FATAL ACCIDENTS

### Underground

| Date | Name of person | Employed by | Cause of Death |
|---|---|---|---|
| 2-10-50 | Willard P. Altman | Idarado Mining Co., Ouray | Probable bad air or gas. |
| 2-14-50 | Chas. H. Carpenter | Telluride Mines, Inc., Telluride | Crushed between car and timber. |
| 6-13-50 | Joe E. Casias | Empire Zinc Div., Gilman | Crushed by falling rock. |
| 7-7-50 | Axel H. Melin | Telluride Mines, Inc., Telluride | Premature blast. |
| 7-25-50 | Melvin L. Shilling | Idarado Mining Co., Ouray | Crushed between motor and mine car. |
| 9-28-50 | Arden E. Connors | Idarado Mining Co., Ouray | Fell down raise. |

### Mills

| | | | |
|---|---|---|---|
| 7-10-50 | Jean Tristant | Idarado Mining Co., Ouray | Crushed by caving tailings pond. |
| 10-15-50 | John R. Hallock | Idarado Mining Co., Ouray | Suffocated in mill ore bin. |

### Smelters

| | | | |
|---|---|---|---|
| 2-3-50 | Thos. Martinez | American Smelting & Refining, Leadville | Lobar pneumonia caused by hernia. |
| 5-16-50 | Jose W. Trujillo | American Smelting & Refining, Leadville | Killed by gas in bag house. |
| 9-27-50 | Tony Drobnick | American Smelting & Refining, Leadville | Crushed by pick-up truck. |

### Quarry

| | | | |
|---|---|---|---|
| 11-23-50 | Jas. L. Lockett | Colorado Fuel & Iron Corp., Salida | Crushed by heavy truck. |

### Rock Excavation

| | | | |
|---|---|---|---|
| 10-2-50 | Harley O. Ingmire | Winston Bros. Company, Loveland | Crushed by falling rock. |

### Oil Wells

| | | | |
|---|---|---|---|
| 7-4-50 | James T. Steel | California Company, Rangely | Burned by oil while cleaning separator. |
| 9-30-50 | William A. Davis | Adams Drilling Co., Brush | Fell from derrick. |

# SUMMARY OF ACCIDENTS

## 1951

| | | |
|---|---|---|
| **FATALS** | | |
| Mines | 10 | |
| Shaft | 3 | |
| Surface | 10 | |
| Mills | 2 | |
| Quarries | 1 | |
| Placers | 0 | |
| Oil | 3 | |
| | | 29 |
| **OCCUPATIONAL DISEASES** | | 14 |
| **PARTIAL DISABILITY** | | |
| Mines | 8 | |
| Mills | 1 | |
| | | 9 |
| **TIME LOST, 2 - 14 days** | | |
| Underground | 546 | |
| Shaft | 15 | |
| Surface | 113 | |
| Placers | 1 | |
| Mills | 44 | |
| Quarries | 43 | |
| | | 762 |
| **TIME LOST - over 14 days** | | |
| Underground | 190 | |
| Shaft | 1 | |
| Surface | 50 | |
| Placers | 0 | |
| Mills | 15 | |
| Quarries | 43 | |
| | | 299 |

TOTAL Number of Accidents in 1951 ..... 1,113

## 1951

## FATAL ACCIDENTS

### Underground

| Date | Name of Person | Employed by | Cause of Death |
|---|---|---|---|
| 2-20-51 | Tony A. Maddalone | American Smelting & Refining, Leadville | Caught between car and timber in shaft. |
| 3-8-51 | Vernon F. Cobb | H. M. Williamson & Son, Jamestown | Fall of rock down shaft. |
| 3-30-51 | C. E. Wright | Fritz Wright, Naturita | Crushed by falling rock. |
| 5-13-51 | Donald W. Gadberry | Resurrection Mining Co., Leadville | Crushed between cage and timber in shaft. |
| 8-22-51 | Thos. E. Moxnes | Climax Molybdenum Co., Climax | Crushed by falling rock. |
| 9-8-51 | Alex P. Perea | Climax Molybdenum Co., Climax | Crushed by falling rock. |
| 10-25-51 | George Hollet | A. F. Skalla, Uravan | Crushed by falling rock. |
| 11-20-51 | Eugene E. Lingol | King Lease, Inc., Ouray | Fell down open stope. |
| 11-23-51 | David F. Goodrich | Telluride Mines, Inc., Telluride | Fell down raise. |
| 11-23-51 | Merle R. Powell | Telluride Mines, Inc., Telluride | Fell down raise. |
| 12-29-51 | William H. Swinehart | Emperius Mining Co., Creede | Crushed by falling rock. |

### Mills

| | | | |
|---|---|---|---|
| 1-16-51 | John W. Ackerman | Telluride Mines, Inc., Telluride | Fell in mill (support beam to floor). |
| 11-2-51 | John W. Vesper | Vanadium Corp. of America, Durango | Crushed by moving machinery. |

### Quarry

| | | | |
|---|---|---|---|
| 12-20-51 | Charles Scutti | Ideal Cement Company, Portland | Crushed by shovel dipper. |

### Oil Wells

| | | | |
|---|---|---|---|
| 7-29-51 | Henry W. Magnus | Mountain Fuel Supply Co., Hiawatha | Crushed by falling derrick. |
| 11-21-51 | Bob M. Barnhill | B & M Service Co., Rangely | Burned by oil tank fire. |
| 11-21-51 | John C. Jones | B & M Service Co., Rangely | Burned by oil tank fire. |

### Rock Tunnels

| | | | |
|---|---|---|---|
| 4-9-51 | W. Adin Marshall | Douglas Jardine, Blue River Tunnel | Crushed by large pipe caught by motor. |
| 7-19-51 | Don I. Symohns | Tarlton Const. Co., Clear Creek Tunnel | Crushed by truck. |
| 10-18-51 | Fred N. Henry | Winston Bros. Co., Loveland | Crushed by falling rock. |

## 1951

## FATAL ACCIDENTS

### Water Dam

The most serious accident to happen in Colorado for several years occurred on August 24th, 1951, at the Reservoir No. 22 of the City and County of Denver, on South Boulder Creek, some 35 miles northwest of Denver. Seven men were killed instantly, two died later, and eleven were seriously injured. The cause of the accident was a premature explosion due to a bolt of lightning striking in the immediate vicinity of charged drill holes.

The investigators of the accident felt that the accident was the result of poor blasting procedure used by the contractors, and the coroner's jury found the company negligent for failure to have sufficient warning devices and safety measures.

The men killed were -

R. Wendell Burrous - Boulder
Frank M. Mitchell - Boulder
Gilbert F. Chaussart - Boulder
Robert D. Maddox - Arvada
Lisle N. Harris - Boulder
Braulio J. Martinez - Boulder
Maxwell B. Rickets - Boulder
G. J. Kim - Golden
Warner Victory - Golden

# LIST OF OPERATING MINES IN VARIOUS COUNTIES IN COLORADO

## DISTRICT NO. 1

## OPERATING MINES IN BOULDER COUNTY, 1951

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| CLARK H. CLARK<br>Box 214<br>Jamestown, Colorado<br>SPARTAN #5 MINE<br>Clark H. Clark, Manager | Fluorspar | Jamestown |
| GEORGE PRIME & JOHNSON BROTHERS<br>Nederland, Colorado<br>HOOSIER MINE<br>Elmer Hetzer, Manager<br>Boulder, Colorado | Tungsten | Nederland |
| PAYMASTER MINE TRUST<br>427 Cooper Building<br>Denver, Colorado<br>PAYMASTER MINE<br>Dan Schmitt, Manager | Tungsten | Boulder |
| GENERAL CHEMICAL DIVISION<br>ALLIED CHEMICAL & DYE CORPORATION<br>40 Rector Street<br>New York 6, New York<br>BURLINGTON MINE<br>W. J. Trepp, Manager<br>Box 228<br>Boulder, Colorado | Fluorspar | Jamestown |
| HARRY M. WILLIAMSON & SONS<br>728 U. S. National Bank Building<br>Denver, Colorado<br>BLUE JAY MINE<br>Harry B. Williamson, Manager | Fluorspar | Jamestown |
| HENNA MINES, INCORPORATED<br>2224 15th Street<br>Boulder, Colorado<br>CASH MINE<br>W. E. Brewster, Manager | Gold<br>Silver | Boulder |
| H. W. LOW<br>244 Lakeside Drive<br>Oakland, California<br>BOULDER COUNTY TUNNEL<br>J. E. Bergren, Manager<br>950 Equitable Building<br>Denver, Colorado | Exploration | Nederland |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| PANDORA METALS INCORPORATED<br>1555 Dayton<br>Aurora, Colorado<br>COMSTOCK MINE<br>E.T.Blakesley, Manager | Silver | Nederland |
| CONSOLIDATED CARIBOU SILVER MINES, INC.<br>1406 Pearl Street<br>Boulder, Colorado<br>IDAHO TUNNEL<br>Matthew Ollson, Manager | Gold<br>Silver<br>Lead<br>Pitchblende | Nederland |
| HETZER MINES INCORPORATED<br>250 Pearl Street<br>Boulder, Colorado<br>VASCO NO. 1 MINE<br>Elmer Hetzer, Manager | Tungsten | Nederland |
| HETZER MINES INCORPORATED<br>250 Pearl Street<br>Boulder, Colorado<br>FOREST HOME MINE<br>Elmer Hetzer, Manager | Tungsten | Nederland |
| HARRISON S. COBB<br>401 Pine Street<br>Boulder, Colorado<br>FRANKLIN NO. 5 MINE<br>Harrison S. Cobb, Manager | Gold<br>Silver | Wallstreet |
| TUNGSTEN ACTIVITIES TRUST<br>427 Cooper Building<br>Denver, Colorado<br>TIP TOP MINE<br>Dan Schmitt, Manager | Tungsten | Nederland |
| BOULDER TUNGSTEN MINES, INCORPORATED<br>Box 37<br>Boulder, Colorado<br>KATY MINES<br>George H. Teal, Manager | Tungsten | Boulder |
| TUNGSTEN MINING COMPANY<br>420 Pine Street<br>Boulder, Colorado<br>TUNGSTEN MINE<br>George W. Cowdery, Manager | Tungsten | Boulder |
| ROOSEVELT TUNNEL LEASE<br>1723 15th Street<br>Boulder, Colorado<br>ROOSEVELT TUNNEL<br>E.J.Crook, Manager | Tungsten | Boulder |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| A. L. RODGERS<br>Star Route<br>Boulder, Colorado<br>LADY LUCK MINE<br>A.L Rodgers, Manager | Tungsten | Sugar Loaf |
| SLIDE MINES INCORPORATED<br>401 Security Building<br>Denver, Colorado<br>MANYON MINE<br>F J Spence, Manager | Tungsten | Ward |
| FRONT RANGE MINES INCORPORATED<br>424 Continental Oil Building<br>Denver, Colorado<br>MELVINA MINE<br>George Teal, Manager<br>Box 37<br>Boulder, Colorado | Gold<br>Silver | Wallstreet |
| H. M. WILLIAMSON & SON<br>728 U. S. National Bank Building<br>Denver, Colorado<br>EMMETT MINE<br>Harry B. Williamson, Manager | Fluorspar | Jamestown |
| COLD SPRINGS TUNGSTEN, INCORPORATED<br>Box 7<br>Nederland, Colorado<br>COLD SPRING MINE<br>G.C.Ridland, Manager<br>405 Interstate Building<br>Denver, Colorado | Tungsten | Nederland |
| VANADIUM CORPORATION OF AMERICA<br>420 Lexington Avenue<br>New York City 17, New York<br>CONGER MINE<br>D E.Harrison, Manager<br>Nederland, Colorado | Tungsten | Nederland |

OPERATING MINES IN CLEAR CREEK COUNTY, 1951

| | | |
|---|---|---|
| LE ROY GILES & COMPANY<br>Idaho Springs, Colorado<br>DIXIE MINE<br>LeRoy Giles, Manager<br>Idaho Springs, Colorado | Gold | Idaho Springs |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| FRANKLIN MINING COMPANY<br>501 Colorado Boulevard<br>Denver, Colorado<br>FRANKLIN MINE<br>Ed C. Rice, Manager<br>Box 87<br>Idaho Springs, Colorado | Gold<br>Lead<br>Zinc | Idaho Springs |
| MID CENTURY MINING CORPORATION<br>1609 Adams Street<br>Denver, Colorado<br>HUMBOLDT MINE<br>R.M.Jensen, Manager | Gold<br>Silver<br>Lead<br>Zinc | Idaho Springs |
| B. E. BROWN<br>318 Continental Oil Building<br>Denver, Colorado<br>MONA DIAMOND JOE MINE<br>B.E.Brown, Manager | Lead<br>Zinc<br>Gold<br>Silver | Idaho Springs |
| ANGLO SAXON MINES, INCORPORATED<br>Georgetown, Colorado<br>ANGLO SAXON MINE<br>Walter Berry, Manager | Gold<br>Silver<br>Lead | Georgetown |
| DIAMOND MOUNTAIN MINES, INCORPORATED<br>Bryan, Ohio<br>KITTY CLYDE MINE<br>Charles Hull, Manager<br>Idaho Springs, Colorado | Gold<br>Silver<br>Lead<br>Zinc | Idaho Springs |
| GOLD HILL MINES COMPANY<br>Box 812<br>Denver, Colorado<br>INDEPENDENT TUNNEL<br>W.W.Moore, Manager | Gold<br>Silver<br>Lead<br>Zinc | Empire |
| TYONE MINING COMPANY<br>Idaho Springs, Colorado<br>TYONE MINE<br>W.D.Fenicle<br>General Delivery<br>Idaho Springs, Colorado | Gold<br>Silver<br>Lead | Idaho Springs |
| THE FRONT RANGE MINES, INCORPORATED<br>424 Continental Oil Building<br>Denver, Colorado<br>KING SOLOMON MINE<br>John Deerksen, Manager | Gold<br>Silver<br>Lead | Idaho Springs |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| GOLD MINES CONSOLIDATED<br>Georgetown, Colorado<br>TERRIBLE DUNDERBERG MINE<br>K.M.Ohlander, Manager<br>Georgetown, Colorado | Lead<br>Silver<br>Zinc | Silver Plume |
| MONTANA MINING DEVELOPMENT COMPANY<br>Box 458<br>Idaho Springs, Colorado<br>LAMARTINE MINE<br>George C. Sinton, Manager<br>Manhattan, Montana | Sulphide Ore | Idaho Springs |
| CARLOS COMSTOCK & R. M. KAHL<br>532 7th Street<br>Boulder City, Nevada<br>MARY B MINE<br>R.M.Kahl, Manager | Gold<br>Silver<br>Lead<br>Zinc | Idaho Springs |
| LUPTON MINING COMPANY<br>Georgetown, Colorado<br>SAN JUAN MINE<br>E.P.Lupton, Manager | Gold<br>Silver<br>Lead<br>Zinc | Georgetown |
| JOHN A. & BEN SMITH<br>Silver Plume, Colorado<br>ZERO MINE<br>Ben Smith, Manager | Gold<br>Silver<br>Lead<br>Zinc | Silver Plume |
| NABOB DEVELOPMENT COMPANY<br>812 Majestic Building<br>Denver, Colorado<br>NABOB MINE<br>C.R.Froman, Manager | Silver<br>Lead<br>Zinc | Lawson |
| WILMARTH MINES<br>Georgetown, Colorado<br>WILMARTH MINES<br>O.Barlow Wilmarth, Manager | Lead<br>Zinc<br>Gold<br>Silver | Bakerville |
| TUCKER, ROSS & TUCKER<br>Empire, Colorado<br>HIDDEN TREASURE MINE<br>T.J.Tucker, Manager | Gold | Empire |
| G. F. INGWERSON<br>1434 Forest Street<br>Denver, Colorado<br>STANLEY MINE<br>G.F.Ingwerson, Manager | Gold<br>Copper<br>Lead<br>Zinc | Idaho Springs |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| GOLD BAR MINES, INCORPORATED<br>1115 Main Street<br>Louisville, Colorado<br>TRISHA LEE TUNNEL<br>James R. Manning, Manager | Torbernite | Idaho Springs |
| D. C. MITCHELL & ASSOCIATES<br>Idaho Springs, Colorado<br>STEVENS MINE<br>Douglas Watrous, Manager | Gold<br>Silver<br>Lead<br>Zinc | Bakerville |
| LEONARD ABBOTT<br>Idaho Springs, Colorado<br>TURNER MINE<br>Leonard Abbott, Manager | Gold<br>Silver<br>Lead<br>Zinc | Idaho Springs |
| KING & EAST<br>2390 South Delaware<br>Denver, Colorado<br>CRAZY GIRL MINE<br>J.M.East, Manager | Gold<br>Silver<br>Lead<br>Zinc | Idaho Springs |
| MILE HIGH MINING COMPANY<br>4025 Grove Street<br>Denver, Colorado<br>SMUGGLER MINE<br>Lawrence Schreiner, Manager<br>General Delivery<br>Georgetown, Colorado | Silver<br>Lead<br>Zinc | Silver Plume |
| MENDOTA - FROSTBURG MINING COMPANY<br>Box 6630<br>Stock Yards Station<br>Denver, Colorado<br>MENDOTA MINE<br>A. Cohen, Manager | Silver<br>Lead<br>Gold<br>Zinc | Silver Plume |
| THE GILL MINING COMPANY, INCORPORATED<br>3935 South Broadway<br>Denver, Colorado<br>BRIGHTON #2 MINE<br>Paul Sisk, Manager<br>Idaho Springs, Colorado | Silver<br>Lead<br>Zinc | Idaho Springs |
| AETNA MINING COMPANY<br>Box 150<br>Boulder, Colorado<br>CAPITOL PRIZE MINE<br>E.P.Swedfeger, Manager | Gold<br>Silver<br>Lead | Georgetown |
| GEORGE D. GILLESPIE<br>1128 Colorado Boulevard<br>Idaho Springs, Colorado<br>GILLESPIE GROUP MINE<br>George D. Gillespie, Manager | Gold<br>Silver<br>Copper | Idaho Springs |

OPERATING MINES IN GILPIN COUNTY, 1951

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| THE ALLEN MINES, INCORPORATED<br>Box 218<br>Central City, Colorado<br>MEEKER SUCCESS MINE<br>Maude W. Russell, Manager | Gold<br>Silver<br>Lead<br>Zinc | Central City |
| UNITED MINING & LEASING CORPORATION<br>Central City, Colorado<br>EUREKA ESSEX MINE<br>C.R. McKay, Manager<br>Box 246<br>Central City, Colorado | Gold<br>Silver<br>Lead<br>Zinc | Central City |
| DUMAS - KINNY MINING COMPANY<br>2046 Welton Street<br>Denver, Colorado<br>DUMAS-KINNY MINE<br>Gene Chaney, Manager<br>Central City, Colorado | Gold<br>Silver<br>Lead<br>Zinc | Blackhawk |
| MANCHESTER TRUST COMPANY<br>Room 27<br>Monticello Hotel<br>Boulder, Colorado<br>MANCHESTER MINE<br>E.J. Ford, Manager | Tungsten | Rollinsville |
| LONE STAR MINING COMPANY<br>395 Allison Street<br>Lakewood, Colorado<br>SMITH TUNNEL<br>R.W. Carroll, Manager | Gold<br>Silver<br>Lead<br>Zinc | Blackhawk |
| THE REALTY COMPANY<br>Box 182<br>Central City, Colorado<br>CALHOUN MINE<br>A.A. Stapp, Manager | Uranium | Central City |
| GOLD CHIEF MINES, INCORPORATED<br>Box 218<br>Central City, Colorado<br>WE GOT EM MINE<br>Maude Russell, Manager | Gold<br>Silver | Central City |

## OPERATING MINES IN JACKSON COUNTY, 1951

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| OZARK - MAHONING MINING COMPANY<br>Box 449<br>Tulsa, Okalhoma<br>NORTHGATE MINE<br>M. J. Cloonan, Manager | Fluorspar | Cowdery |

## OPERATING MINES IN JEFFERSON COUNTY, 1951

| | | |
|---|---|---|
| CRIPPLE CREEK MERINO MINES COMPANY<br>1130 16th Street<br>Denver, Colorado<br>CRIPPLE CREEK MERINO MINE<br>Ray A. Bennett, Manager | Carnotite | Leyden |

## OPERATING MINES IN LARIMER COUNTY, 1951

| | | |
|---|---|---|
| CHEROKEE MINES<br>122 South College Avenue<br>Fort Collins, Colorado<br>CHEROKEE MINES<br>T. H. Sackett, Manager<br>231 South Grant Street<br>Fort Collins, Colorado | Gold<br>Silver<br>Copper | Fort Collins<br>(Cherokee Park) |

## OPERATING MINES IN ROUTT COUNTY, 1951

| | | |
|---|---|---|
| EDWARD L. STEVENS<br>General Delivery<br>Columbine, Colorado<br>ELK HEAD MINE<br>Edward L. Stevens, Manager | Silver<br>Lead<br>Zinc | Steamboat<br>Springs |

## OPERATING MINES IN SUMMIT COUNTY, 1951

| | | |
|---|---|---|
| BAND B MINES COMPANY LEASE<br>Breckenridge, Colorado<br>MINNIE MINE<br>W. L. Davenport, Manager | Silver<br>Lead<br>Zinc | Breckenridge |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| ELWIN ALDRIDGE & ENYEART<br>General Delivery<br>Dillon, Colorado<br>FLORADO MINE<br>Elwin Aldridge, Manager<br>Montezuma, Colorado | Silver<br>Lead<br>Zinc | Montezuma |
| W. L. DAVENPORT<br>Box 192<br>Breckenridge, Colorado<br>WELLINGTON MINE<br>W.L.Davenport, Manager | Gold<br>Silver<br>Lead<br>Zinc | Breckenridge |
| MAX BUNKER<br>Dillon, Colorado<br>IDA BELLE<br>Max Bunker, Manager | Silver<br>Lead<br>Zinc | Dillon |
| THOMAS MARTIN<br>Montezuma, Colorado<br>SAINT JOE MINE<br>Thomas Martin, Manager | Silver<br>Lead<br>Zinc | Montezuma |
| LEE HONTS<br>Montezuma, Colorado<br>SILVER WING MINE<br>Thomas Martin, Manager | Silver<br>Lead<br>Zinc | Montezuma |
| MIKE VINSON<br>Breckenridge, Colorado<br>CHATAUQUA MINE<br>Mike Vinson, Manager | Gold<br>Silver<br>Lead<br>Zinc | Montezuma |
| BROOKS - YOUNG<br>Box 63<br>Idaho Springs, Colorado<br>ALLEN-EMORY MINE<br>F.W.Brooks, Manager | Silver<br>Lead | Montezuma |
| STERLING P. TRUE<br>Box 34<br>Breckenridge, Colorado<br>PAYMASTER MINE<br>Sterling P. True, Manager | Gold<br>Silver<br>Lead<br>Zinc | Montezuma |
| YORK INVESTMENT COMPANY<br>2239 East Colfax<br>Denver, Colorado<br>COLONEL SELLER'S MINE<br>Hayutin & Hayutin, Managers | Gold<br>Silver<br>Lead<br>Zinc | Kokomo |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| LEO D. WELLS & PETE STROM<br>Dillon, Colorado<br>JACK POT MINE<br>Leo D. Wells, Manager | Silver<br>Lead<br>Zinc | Montezuma |
| UNITED STATES LEAD CORPORATION<br>Montezuma, Colorado<br>SUPERIOR MINE<br>S.I.Rusinow, Manager | Gold<br>Silver<br>Lead | Montezuma |
| A. R. RHINE<br>2550 Yarrow<br>Denver, Colorado<br>GENERAL TELLER MINE<br>A.R.Rhine, Manager | Lead<br>Zinc<br>Gold<br>Silver | Montezuma |
| MIKE VINSON & PARTNERS<br>Breckenridge, Colorado<br>CASHIER MINE<br>Mike Vinson, Manager | Silver<br>Lead<br>Zinc | Montezuma |
| E. W. SHANNON & ASSOCIATES<br>832 Gay Street<br>Longmont, Colorado<br>MINERAL HILL MINE<br>E.W.Shannon, Manager | Gold<br>Silver<br>Lead<br>Zinc | Breckenridge |
| WALTER BYRON AND ASSOCIATES<br>Kokomo, Colorado<br>QUEEN OF THE WEST<br>Leonard Deay-Reusch, Manager | Gold<br>Silver<br>Lead | Kokomo |

DISTRICT NO. 2

OPERATING MINES IN CUSTER COUNTY, 1951

| | | |
|---|---|---|
| CHARLES E. & LYMAN AKIN<br>2133 West 11th Street<br>Pueblo, Colorado<br>TOMBOY MINE<br>Charles E. Akin, Manager | Gold | Ophir Creek |
| H. O. WOMACK & SONS<br>Silver Cliff, Colorado<br>WOMACK SHAFT MINE<br>H.O.Womack & Sons, Managers | Lead<br>Silver<br>Zinc | Querida |
| STAMINA MINING & MILLING COMPANY<br>Hillside, Colorado<br>CLOVERDALE TUNNEL<br>W.B.Porch, Manager | Exploration | Westcliffe |
| DEFENDER MINING COMPANY<br>Silver Cliff, Colorado<br>DEFENDER MINE<br>E.F.Stacy, Manager | Silver<br>Lead<br>Zinc | Westcliffe |

## OPERATING MINES IN FREMONT COUNTY, 1951

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| WILLIAM KLINE<br>Cotopaxi, Colorado<br>COPPER GLANCE MINE<br>William Kline, Manager | Copper | Salida |
| GEORGE W FRYE<br>Cotopaxi, Colorado<br>COTOPAXI MINE<br>Roy Knowles, Manager | Lead<br>Zinc<br>Copper | Cotopaxi |
| JOHN E. & CHARLES W GRIFFIN, HOMER BELL<br>306 Main Street<br>Canon City, Colorado<br>SLIP UP LODE<br>John E. Griffen, Manager | Silver<br>Copper | Canon City |

## OPERATING MINES IN PARK COUNTY, 1951

| | | |
|---|---|---|
| BAZLEY & SCHUMAKER ENGINEERING COMPANY<br>5 East Bijou Street<br>Colorado Springs, Colorado<br>BETTY MINE<br>Paul Sisk, Manager | Copper<br>Zinc | Guffey |
| BUCKSKIN JOE MINES LIMITED<br>Alma, Colorado<br>BUCKSKIN JOE MINE<br>Charles W. Jordan, Manager<br>Buena Vista, Colorado | Gold<br>Copper<br>Lead<br>Zinc | Alma |
| SHELBY - JOHNSON MINES COMPANY<br>Fairplay, Colorado<br>SHELBY TUNNEL<br>Everett Johnson, Manager | Gold<br>Lead<br>Zinc | Mount Loveland<br>Alma |
| S A. GATELEY<br>Alma, Colorado<br>WEBER SHAFT<br>S. A. Gateley | Gold<br>Silver<br>Lead<br>Zinc | Mineral Park<br>Alma |
| W H. GADDIS<br>Box 11<br>Hartsel, Colorado<br>SHIRLEY MAY MINE<br>W. H Gaddis, Manager | Uranium | Garo |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| PENNSYLVANIA PROJECT ASSOCIATION<br>Fairplay, Colorado<br>LONDON BUTTE MINE<br>Harvey L. Tedrow, Manager<br>Olin Hotel<br>Denver, Colorado | Gold<br>Silver<br>Lead<br>Zinc | Mosquito Gulch<br>Alma |
| LEADVILLE LEAD CORPORATION<br>500 Ernest & Cranmer Building<br>Denver, Colorado<br>HILLTOP CONSOLIDATION<br>W. E. VanCooten, Manager<br>Alma, Colorado | Lead<br>Silver | Horseshoe District<br>Fairplay |
| CORDILLERA CORPORATION<br>Box 61<br>Fairplay, Colorado<br>LING MINE<br>N. Harry Dunn, Manager | Gold<br>Silver | North Star<br>Mountain<br>Alma |

OPERATING MINES IN TELLER COUNTY, 1951

| | | |
|---|---|---|
| GOLDEN CYCLE CORPORATION -<br>AJAX OPERATION<br>Box 127<br>Cripple Creek, Colorado<br>AJAX MINE<br>Charles Carlton, Manager | Gold | Victor |
| CRESSON CONSOLIDATED GOLD MINING &<br>MILLING COMPANY<br>Box 127<br>Cripple Creek, Colorado<br>CRESSON MINE<br>Charles Carlton, Manager | Gold | Victor |
| TRAND MINING & LEASING COMPANY<br>Box 11<br>Cripple Creek, Colorado<br>SOUTH BURNS MINE<br>Roy W. Andrews, Manager | Gold | Victor |
| MARKLEY MINES & EXPLORATION COMPANY<br>Cripple Creek, Colorado<br>MOLLY KATHLEEN MINE<br>Lee Brown, Manager | Gold<br>Silver | Cripple Creek |
| GLOBE HILL MINING COMPANY<br>336 Independence Building<br>Colorado Springs, Colorado<br>CHICAGO TUNNEL<br>A. S. Konselman, Manager | Gold | Cripple Creek |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| JO DANDY MINING COMPANY<br>Independence Building<br>Colorado Springs, Colorado<br>JO DANDY MINE<br>A. S. Konselman, Manager | Gold | Victor |
| CRIPPLE CREEK MINING & MILLING COMPANY<br>Box 247<br>Cripple Creek, Colorado<br>GOLD KING MINE<br>Arthur J. Hogan, Manager | Gold | Cripple Creek |
| LLOYD STONER & ASSOCIATES<br>Cripple Creek, Colorado<br>DEADWOOD MINE<br>Lloyd Stoner, Manager | Gold | Victor |
| JOHN ROEBUSH & COMPANY<br>Cripple Creek, Colorado<br>EL PASO TUNNEL<br>Earl Roebush, Manager | Gold | Cripple Creek |
| HARD LUCK MINING & LEASING COMPANY<br>Box 127<br>Cripple Creek, Colorado<br>MODOC MINE<br>C. H. Carlton, Manager | Gold | Battle Mountain |
| HILLTOP MINING COMPANY<br>9 East Cucharas<br>Colorado Springs, Colorado<br>LONE PINE MINE<br>Frank Holley, Manager | Feldspar | Woodland Park |
| ISABELLA MINES INCORPORATED<br>126 South Tejon Street<br>Colorado Springs, Colorado<br>ISABELLA MINE<br>W.A Kyner, Manager<br>Alamo Hotel<br>Colorado Springs, Colorado | Gold | Victor |
| UNITED GOLD MINES<br>621 North Wahsatch<br>Colorado Springs, Colorado<br>PATTI ROSA MINE<br>George Stiner, Manager<br>1639 South Nevada<br>Colorado Springs, Colorado | Gold | Victor |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| CANYON GOLD INCORPORATED<br>Cripple Creek, Colorado<br>RUBIE MINE<br>Troy Wade, Manager | Gold | Bull Hill |
| CHAMPION MINES COMPANY<br>941 Monroe Street<br>Denver, Colorado<br>FOREST QUEEN MINE<br>Jesse Simmons, Manager | Gold | Ironclad Hill |
| UNITED GOLD MINES COMPANY<br>Box 127<br>Cripple Creek, Colorado<br>VINDICATOR MINE<br>Alfred H. Bebee, Manager | Gold | Bull Hill |
| CANYON GOLD INCORPORATED<br>Cripple Creek, Colorado<br>GRACE GREENWOOD MINE<br>Troy Wade, Manager | Gold | Gold Hill |
| FRONT RANGE MINES INCORPORATED<br>424 Continental Oil Building<br>Denver, Colorado<br>STRONG MINE<br>John Deerksen, Manager<br>816 Continental Oil Building<br>Denver, Colorado | Gold | Victor |
| CHAMPION MINES<br>941 Monroe Street<br>Denver, Colorado<br>W. P. H. MINE<br>Jesse Simmons, Manager | Gold | Ironclad Hill |
| ANACONDA LEAD & SILVER COMPANY<br>Empire Building<br>16th and Glenarm<br>Denver, Colorado<br>EL PASO DUMP<br>Carl Forcelius, Manager<br>Victor, Colorado | Gold | Beacon Hill |

## DISTRICT NO. 3

### OPERATING MINES IN CHAFFEE COUNTY, 1951

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| GENERAL CHEMICAL DIVISION OF<br>ALLIED CHEMICAL & DYE CORPORATION<br>40 Rector Street<br>New York City 6, New York<br>BROWN'S CANON MINE<br>Edward Tafoya, Manager<br>Salida, Colorado | Fluorspar | Salida |
| REYNOLD MINING CORPORATION<br>Box 169<br>Salida, Colorado<br>PONCHA SPRINGS FLUORSPAR MINE<br>E.O.Soret, Manager | Fluorspar | Poncha Springs |
| S. E. & W. E. BURLESON<br>Box 209<br>Salida, Colorado<br>MARY MURPHY MINE<br>Walter Burleson, Manager | Gold<br>Silver<br>Lead<br>Zinc | Buena Vista |

### OPERATING MINES IN CONEJOS COUNTY, 1951

| | | |
|---|---|---|
| W. P. KING<br>Manassa, Colorado<br>KING'S TURQUOISE MINE<br>W.P.King, Manager | Turquoise | Manassa |

### OPERATING MINES IN EAGLE COUNTY, 1951

| | | |
|---|---|---|
| EMPIRE ZINC DIVISION OF<br>THE NEW JERSEY ZINC COMPANY<br>160 Front Street<br>New York City, New York<br>EMPIRE ZINC MINE<br>Frank J. Maloit, Manager<br>Gilman, Colorado | Gold<br>Silver<br>Lead<br>Zinc<br>Copper | Gilman |
| NICK RANDALL<br>707 East 5th Street<br>Leadville, Colorado<br>MORNING MINE<br>Nick Randall, Manager | Lead<br>Silver<br>Zinc | Redcliff |

### OPERATING MINES IN GARFIELD COUNTY, 1951

| | | |
|---|---|---|
| B. J. HENDRICKSON, LESSEE<br>Rifle, Colorado<br>RIFLE CREEK MINE<br>B.J.Hendrickson, Manager | Carnotite | Rifle |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| J. E. HAYES<br>Box 602<br>Newcastle, Colorado<br>HOMESTAKE MINE<br>J.E.Hayes, Manager | Carnotite | Newcastle |

OPERATING MINES IN LAKE COUNTY, 1951

| | | |
|---|---|---|
| JOHN ROBERTS & ASSOCIATES<br>Box 316<br>Leadville, Colorado<br>DOLLY B MINE<br>Sam Shimmin, Manager<br>143 West 6th Street<br>Leadville, Colorado | Gold<br>Silver<br>Lead<br>Zinc | Leadville |
| DR. WILLIAM J. ROSE & ASSOCIATES<br>Leadville, Colorado<br>VALLEY MINE<br>Dr. William J. Rose, Manager | Gold<br>Silver<br>Lead<br>Zinc | Leadville |
| CADWELL MINING COMPANY<br>Leadville, Colorado<br>HAYDEN SHAFT<br>R. B. Patrick, Manager<br>105 East 6th Street<br>Leadville, Colorado | Gold<br>Silver<br>Lead<br>Zinc | Leadville |
| RESURRECTION MINING COMPANY<br>Leadville, Colorado<br>RESURRECTION, WHITE CAP AREA<br>B. B. Greenlee, Manager | Gold<br>Silver<br>Copper<br>Zinc<br>Lead | Leadville |
| CLYDE M. HANSON & ASSOCIATES<br>415 East 2nd Street<br>Leadville, Colorado<br>HANSON'S LEASE<br>Clyde Hanson, Manager | Gold<br>Silver<br>Lead<br>Zinc | Leadville |
| RALPH P. RUSSELL & ASSOCIATES<br>117 East 10th Street<br>Leadville, Colorado<br>RALPH RUSSELL LEASE<br>Ralph Russell, Manager | Gold<br>Silver<br>Lead<br>Zinc | Leadville |
| GEORGE PESCHEL & ASSOCIATES<br>East 6th Street<br>Leadville, Colorado<br>GEORGE PESCHEL LEASE<br>George Peschel, Manager | Gold<br>Silver<br>Lead<br>Zinc | Leadville |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| FROELICH KAISER<br>Leadville, Colorado<br>KAISER LEASE<br>Froelich Kaiser, Manager | Gold<br>Silver<br>Lead<br>Zinc | Leadville |
| JOHN KOSTELIC & ASSOCIATES<br>1016 Alder Street<br>Leadville, Colorado<br>KOSTELIC LEASE<br>John Kostelic, Manager | Gold<br>Silver<br>Lead<br>Zinc | Leadville |
| WILLIAM LATHAM<br>201 Leiter Avenue<br>Leadville, Colorado<br>LATHAM LEASE<br>William Latham, Manager | Gold<br>Silver<br>Lead<br>Zinc | Leadville |
| ROY WOLCOTT & ASSOCIATES<br>225 West 6th Street<br>Leadville, Colorado<br>WOLCOTT LEASE<br>Roy Wolcott, Manager | Gold<br>Silver<br>Lead<br>Zinc | Leadville |
| AMERICAN SMELTING & REFINING COMPANY<br>120 Broadway<br>New York City 5, New York<br>IBEX SUNDAY AREA<br>John C. Mitchell, Manager<br>Leadville, Colorado | Gold<br>Silver<br>Lead<br>Zinc | Leadville |
| UTAH CONSTRUCTION COMPANY<br>Box 909<br>Leadville, Colorado<br>LEADVILLE DRAINAGE TUNNEL<br>Harry Greshul, Manager<br>Vendome Hotel<br>Leadville, Colorado | Exploration | Leadville |
| CLIMAX MOLYBDENUM COMPANY<br>500 Fifth Avenue<br>New York City, New York<br>CLIMAX MOLYBDENUM MINE<br>Franklin Coolbaugh, Manager<br>Climax, Colorado | Molybdenum<br>Tin<br>Tungsten | Climax |
| GIBBONS & REED & BOYLE BROTHERS<br>Climax, Colorado<br>STORKE TUNNEL<br>William McGlothlin, Manager | Molybdenum | Climax |
| RESURRECTION MINING COMPANY<br>Leadville, Colorado<br>RESURRECTION NO. 2 MINE<br>B. B. Greenlee, Manager | Gold<br>Silver<br>Lead<br>Copper<br>Zinc | Leadville |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| C. RYAN & SON<br>Climax, Colorado<br>RYAN CONSTRUCTION COMPANY<br>C. Ryan, Manager | Molybdenum | Climax |
| J. G. MURCRAY & ASSOCIATES<br>415 East 8th Street<br>Leadville, Colorado<br>LITTLE ALICE MINE<br>J. G. Murcray, Manager | Gold<br>Silver<br>Lead<br>Zinc | Leadville |
| MAKI BROTHERS<br>410 East 8th Street<br>Leadville, Colorado<br>LAKEWOOD MINE<br>Eugene Maki, Manager | Gold<br>Silver | Turquoise Lake |
| EMMETT CONNERS, LESSEE<br>206 East 6th Street<br>Leadville, Colorado<br>VALLEY MINE<br>Emmett Conners, Manager | Gold<br>Silver<br>Lead<br>Zinc | Big Evans Gulch |
| P. R. CLARK<br>413 East 9th Street<br>Leadville, Colorado<br>FORTUNE MINE<br>P. R. Clark, Manager | Gold<br>Silver<br>Lead<br>Zinc | Big Evans Gulch |
| NEW MONARCH LEASE<br>Leadville, Colorado<br>MONARCH SHAFT<br>Fred Rice, Manager<br>East 8th Street<br>Leadville, Colorado | Gold<br>Silver<br>Lead<br>Zinc | Leadville |
| JOHNNY FOUR LEASE<br>105 East 6th Street<br>Leadville, Colorado<br>IBEX NO. 4 SHAFT<br>R.B.Patrick, Manager<br>105 East 6th Street<br>Leadville, Colorado | Gold<br>Silver<br>Lead<br>Zinc | Johnny Hill |
| STEARNS ROGERS<br>1720 California Street<br>Denver, Colorado<br>CLIMAX MILL<br>Stearns Rogers, Manager | Exploration | Climax |

OPERATING MINES IN MINERAL COUNTY, 1951

| | | |
|---|---|---|
| EMPERIUS MINING COMPANY<br>Creede, Colorado<br>EMPERIUS MINE<br>Eric W. Nelson, Manager | Silver<br>Lead<br>Zinc | Creede |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| OUTLET MINING COMPANY<br>Creede, Colorado<br>PHOENIX MINE<br>John R. Jackson, Manager | Lead<br>Silver<br>Gold | Creede |
| RIO GRANDE MINING COMPANY<br>Creede, Colorado<br>RIO GRANDE MINE<br>Wallace Leary, Manager | Exploration | Creede |
| T. O. C. DEVELOPMENT CORPORATION<br>Creede, Colorado<br>MEXICO, SOLOMON & ETHEL MINE<br>R. R. Lehman, Manager | Gold<br>Silver<br>Lead | Creede |

OPERATING MINES IN PITKIN COUNTY, 1951

| | | |
|---|---|---|
| MIDNIGHT MINING COMPANY<br>Aspen, Colorado<br>MIDNIGHT MINE<br>Frank J. Willoughby, Manager | Lead<br>Zinc<br>Silver | Aspen |
| HERRON BROTHERS<br>Aspen, Colorado<br>SMUGGLER NO. 2<br>William Herron, Manager | Lead<br>Zinc<br>Silver | Aspen |

OPERATING MINES IN RIO BLANCO COUNTY, 1951

| | | |
|---|---|---|
| JOHN C. DEVERAUX & ASSOCIATES<br>Box 373<br>Meeker, Colorado<br>BROWN NO. 9 MINE<br>John Deveraux, Manager | Uranium<br>Vanadium | Meeker |
| NORMAN WELLMAN & ASSOCIATES<br>Rifle, Colorado<br>PURPLE SAGE MINE NO. 3<br>Norman Wellman, Manager | Uranium<br>Vanadium | Meeker |
| RAY HASSELBUSH & ASSOCIATES<br>Box 149<br>Rifle, Colorado<br>MIDNIGHT MINE NO. 1<br>Ray Hasselbush, Manager | Uranium<br>Vanadium | Meeker |

## OPERATING MINES IN SAGUACHE COUNTY, 1951

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| SILVER CREEK MINES<br>Box 491<br>Salida, Colorado<br>SILVER CREEK MINE NO. 1<br>R.H.Gause, Manager | Lead<br>Silver | Salida |
| WANNAMAKER MINING AND MILLING COMPANY<br>Box 246<br>Saguache, Colorado<br>SKY CITY MINE<br>W.M.Dickerson, Manager | Gold<br>Silver<br>Lead<br>Zinc | Saguache |
| JOHNSTON MINING COMPANY<br>Bonanza, Colorado<br>JENNIE MINE<br>L.G.Johnston, Manager | Silver<br>Lead<br>Zinc | Rawley Mountain |
| METAL PRODUCTION COMPANY, INCORPORATED<br>412 North Stout Street<br>Pratt, Kansas<br>COMMANDER MINE<br>Ole Olson, Manager<br>Bonanza, Colorado | Silver<br>Lead<br>Zinc | Bonanza |
| S. E. & W. E. BURLESON<br>120 West 2nd Street<br>Salida, Colorado<br>ANTORO MINE<br>Walter Burleson, Manager<br>G Street<br>Salida, Colorado | Silver<br>Lead<br>Zinc | Bonanza |
| WILLIAM J. COSTELLO<br>Bonanza Route<br>Villa Grove, Colorado<br>RAWLEY MINE<br>William Costello, Manager | Silver<br>Lead<br>Copper<br>Zinc | Rawley Mountain |
| T. M. RAYMOND<br>Bonanza, Colorado<br>JENNY MINE<br>L.G.Johnston, Manager | Silver<br>Lead<br>Zinc | Rawley Mountain |

## DISTRICT NO. 4

## OPERATING MINES IN DOLORES COUNTY, 1951

| | | |
|---|---|---|
| E. A. EDWARDS<br>Rico, Colorado<br>AZTEC MINE<br>E.A.Edwards, Manager | Lead<br>Zinc | Rico |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| MYRON L. JONES<br>Rico, Colorado<br>SAINT LOUIS CLAIM<br>Myron L. Jones, Manager | Gold | Rico |
| RICO ARGENTINE MINING COMPANY<br>Rico, Colorado<br>ARGENTINE MINE<br>H.B.Hinckley, Manager | Lead<br>Zinc | Rico |
| RICO ARGENTINE MINING COMPANY<br>Rico, Colorado<br>RICO ARGENTINE MILL<br>H.B.Hinckley, Manager | Lead<br>Zinc | Rico |
| RICO ARGENTINE MINING COMPANY<br>Rico, Colorado<br>MOUNTAIN SPRINGS MINE<br>H.B.Hinckley, Manager | Lead<br>Zinc | Rico |
| RICO ARGENTINE MINING COMPANY<br>Rico, Colorado<br>SILVER SWAN MINE<br>H.B.Hinckley, Manager | Lead<br>Zinc | Rico |

OPERATING MINES IN GUNNISON COUNTY, 1951

| | | |
|---|---|---|
| AMERICAN SMELTING & REFINING COMPANY<br>120 Broadway<br>New York City 5, New York<br>KEYSTONE MINE<br>Nolan Probst, Manager<br>Crested Butte, Colorado | Gold<br>Silver<br>Copper<br>Lead<br>Zinc | Crested Butte |
| CALLAHAN ZINC - LEAD COMPANY<br>100 Park Avenue<br>New York City, New York<br>AKRON MINE<br>J. E. Dunn, Manager<br>Whitepine, Colorado | Silver<br>Copper<br>Lead<br>Zinc | Whitepine |
| POSTON MINING COMPANY<br>Box 510<br>Canon City, Colorado<br>BROWN DERBY MINE<br>Warren Poston, Manager<br>Parlin, Colorado | Lepidolite<br>Microlite<br>Mica<br>Beryllium | Parlin |
| CALLAHAN LEAD - ZINC COMPANY<br>Sargents, Colorado<br>ERIE MINE<br>James Dunn, Manager<br>Whitepine, Colorado | Silver<br>Lead<br>Zinc | Whitepine |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| SLATE RIVER MINING COMPANY<br>Alamosa, Colorado<br>MICAWBER MINE<br>Robert C. Simpson, Manager<br>Crested Butte, Colorado | Silver<br>Lead<br>Zinc<br>Copper | Crested Butte |
| CRESTED BUTTE MINING & MILLING CORPORATION<br>Crested Butte, Colorado<br>DAISY MINE<br>Richard S. Mackey, Manager | Silver<br>Lead<br>Zinc<br>Copper | Crested Butte |
| FOREST QUEEN MINES INCORPORATED<br>Crested Butte, Colorado<br>FOREST QUEEN MINE<br>Edward L. Hahn, Manager | Gold<br>Silver<br>Copper<br>Lead | Crested Butte |
| CUMBERLAND MINING, MILLING & PROCESSING CO.<br>Gunnison, Colorado<br>CUMBERLAND MINING, MILLING &<br>PROCESSING COMPANY MINE<br>William Gillespie, Manager | Molybdenite<br>Hubnerite<br>Scheelite | Pitkin |
| KANARADO MINING & DEVELOPMENT COMPANY<br>Ohio City, Colorado<br>CARTER MINE<br>Charles T. Vashus, Manager | Gold<br>Silver<br>Lead | Ohio City |
| JOHN LAMBERTSON<br>Gunnison, Colorado<br>STAR MINE<br>John Lambertson, Manager | Gold<br>Silver<br>Lead | Gunnison |

OPERATING MINES IN HINSDALE COUNTY, 1951

| | | |
|---|---|---|
| COLORADO STANDARD LEAD. ZINC MINES, INC.<br>Lake City, Colorado<br>UTE & ULAY MINE<br>W.B.Tobey, Manager | Gold<br>Silver<br>Copper<br>Lead<br>Zinc | Lake City |
| C. J. VAN BUSKIRK AND ASSOCIATES<br>Lake City, Colorado<br>HOOSIER BOY MINE<br>C.J.VanBuskirk, Manager | Gold<br>Silver<br>Copper<br>Lead<br>Zinc | Lake City |
| COLLINS WESTERN CORPORATION<br>Box 11<br>Lake City, Colorado<br>MORO-AJAX MINE<br>Victor Byorkman, Manager | Gold<br>Silver<br>Lead | Lake City |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| JOE B. BROWN & ASSOCIATES<br>Lake City, Colorado<br>YELLOW MEDICINE MINE<br>Clifford L. Doyle, Manager | Gold<br>Silver<br>Lead<br>Zinc | Lake City |
| CZAR MINING COMPANY<br>Lake City, Colorado<br>CZAR MINE<br>Gene McClure, Manager<br>Creede, Colorado | Gold<br>Silver<br>Lead<br>Zinc | Lake City |

OPERATING MINES IN LA PLATA COUNTY, 1951

| | | |
|---|---|---|
| BESSIE G COMPANY<br>Box 1269<br>Durango, Colorado<br>BESSIE G MINE<br>Bert Thompson, Manager | Gold<br>Silver | Hesperus |

OPERATING MINES IN MESA COUNTY, 1951

| | | |
|---|---|---|
| CLIMAX URANIUM COMPANY<br>500 Fifth Avenue<br>New York 18, New York<br>CLIMAX URANIUM MINE<br>Marvin L. Kay, Manager<br>Box 867<br>Grand Junction, Colorado | Carnotite | Grand Junction |
| CLIMAX URANIUM COMPANY<br>500 Fifth Avenue<br>New York 18, New York<br>CLIMAX G-1 INCLINE MINE<br>Marvin L. Kay, Manager<br>Box 867<br>Grand Junction, Colorado | Carnotite | Grand Junction |
| CLIMAX URANIUM COMPANY<br>500 Fifth Avenue<br>New York 18, New York<br>M. C. #10 INCLINE MINE<br>Marvin L. Kay, Manager<br>Box 867<br>Grand Junction, Colorado | Carnotite | Grand Junction |
| CLIMAX URANIUM COMPANY<br>500 Fifth Avenue<br>New York 18, New York<br>M. C. #12 INCLINE MINE<br>Marvin L. Kay, Manager<br>Box 867<br>Grand Junction, Colorado | Carnotite | Grand Junction |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| C. L. BROWN<br>Gateway, Colorado<br>RONNIE MINE<br>C.L.Brown, Manager | Carnotite | Grand Junction |
| VERNON L. LEHR, LESSEE<br>Gateway, Colorado<br>CALAMITY #2 MINE<br>Vernon L. Lehr, Manager | Carnotite | Grand Junction |
| RALPH FOSTER & SONS, LESSEES<br>1217 Colorado Avenue<br>Grand Junction, Colorado<br>CALAMITY #13 MINE<br>Steve Foster, Manager | Carnotite | Grand Junction |
| F. HAMRICK & LINSCOTT, LESSEES<br>401 Grand Avenue<br>Grand Junction, Colorado<br>SUNFLOWER MINE<br>F. Hamrick, Manager | Carnotite | Gateway |
| RALPH HULL<br>Gateway, Colorado<br>HUMDINGER MINE<br>Alf Hall, Manager<br>411 Teller Avenue<br>Grand Junction, Colorado | Carnotite | Gateway |
| VERNON L. LEHR, LESSEE<br>Gateway, Colorado<br>CALAMITY MINE #27 & #21<br>V.L.Lehr, Manager | Carnotite | Grand Junction |
| CLIMAX URANIUM COMPANY<br>500 Fifth Avenue<br>New York 18, New York<br>INCLINE #1 OR ARROWHEAD #34 MINE<br>Marvin L. Kay, Manager<br>Box 867<br>Grand Junction, Colorado | Carnotite | Gateway |
| GLENN ZASTRO, LESSEE<br>Rifle, Colorado<br>THE MATCHLESS MINE<br>Glenn Zastro, Manager | Carnotite | Gateway |
| PETE BOSMA<br>1524 North Seventh Street<br>Grand Junction, Colorado<br>SMALL SPOT MINE<br>Pete Boxma, Manager | Carnotite | Gateway |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| RALPH FOSTER & SONS<br>1217 Colorado Avenue<br>Grand Junction, Colorado<br>CALAMITY MINE #17<br>Herbert Foster, Manager | Carnotite | Grand Junction |
| IRVIN L. HUBBARD & ASSOCIATES<br>Gateway, Colorado<br>BLACK MAMMY MINE<br>I.L.Hubbard, Manager | Carnotite | Gateway |
| DULANEY MINING COMPANY<br>312 First National Bank Building<br>Grand Junction, Colorado<br>MAMOUTH MINE<br>R.O.Dulaney, Manager | Carnotite | Gateway |
| AJAX MINING & OIL COMPANY<br>Box 1075<br>Grand Junction, Colorado<br>AJAX-CAVE-LUCKY DAY MINE<br>C.A.Dye, Manager | Carnotite | Gateway |
| JOHN C. UKELE & ASSOCIATES<br>Gateway, Colorado<br>LA SAL MINE #2<br>J. C. Ukele, Manager | Carnotite | Gateway |
| UNITED STATES VANADIUM<br>Box 1169<br>Grand Junction, Colorado<br>LUMSTOM MINE #2<br>M. Templeton, Manager | Carnotite | Gateway |
| J. B. CROWLEY<br>Box 294<br>Dove Creek, Colorado<br>PACK RAT MINE<br>J.B.Crowley, Manager | Carnotite | Gateway |
| MINERALS ENGINEERING COMPANY<br>801 4th Avenue<br>Grand Junction, Colorado<br>LEGIN LEASE MINE<br>W.E.Haldane, Manager | Carnotite | Gateway |
| PAUL M. KUYKENDALL<br>Route 4<br>Grand Junction, Colorado<br>LOPAZ MINE #1<br>Paul M. Kuykendall, Manager | Carnotite | Gateway |

## OPERATING MINES IN MONTROSE COUNTY, 1951

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| TOM VAN ARSDALE & MARK TEMPLETON, LESSEES<br>Uravan, Colorado<br>LONG PARK MINE #13<br>Tom VanArsdale, Manager | Carnotite | Uravan |
| VICTOR PORTER, LESSEE<br>Uravan, Colorado<br>WHITNEY SHAFT MINE<br>Victor Porter, Manager | Carnotite | Uravan |
| R. C. BISHOP, LESSEE<br>Box 424<br>Uravan, Colorado<br>HONEY MOON MINE<br>R.C.Bishop, Manager | Carnotite | Uravan |
| G. NEESHAM, LESSEE<br>Nucla, Colorado<br>SPHINX MINE<br>G. Neesham, Manager | Carnotite | Uravan |
| FRITZ WRIGHT<br>Box 151<br>Naturita, Colorado<br>LAST CHANCE MINE<br>Fritz Wright, Manager | Carnotite | Paradox |
| FRITZ WRIGHT<br>Box 151<br>Naturita, Colorado<br>RADIUM KING MINE<br>Fritz Wright, Manager | Carnotite | Paradox |
| VANADIUM CORPORATION OF AMERICA<br>420 Lexington Avenue<br>New York City 17, New York<br>BITTER CREEK MINE<br>D.W.Viles, Manager<br>Durango, Colorado | Carnotite | Naturita |
| A. F. SKALLA, LESSEE<br>Uravan, Colorado<br>FAWN SPRINGS INCLINE MINE #9 & #12<br>A.F.Skalla, Manager | Carnotite | Naturita |
| HENRY O. LEAR, LESSEE<br>Rural Route #1<br>Grand Junction, Colorado<br>J.J. MINE<br>Henry O. Lear, Manager | Carnotite | Naturita |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| J. R. FORD, LESSEE<br>Naturita, Colorado<br>JO DANDY MINE<br>J.R.Ford, Manager | Carnotite | Naturita |
| SCHUMWAY & HARRISON, LESSEES<br>Naturita, Colorado<br>THUNDERBOLT MINE<br>Pete Schumway, Manager | Carnotite | Naturita |
| A. F. SKALLA, LESSEE<br>Uravan, Colorado<br>BOB TAIL MINE<br>A.F.Skalla, Manager | Carnotite | Uravan |
| GLENN GREGOR, LESSEE<br>Naturita, Colorado<br>HOBO MINE<br>Glenn Gregor, Manager | Carnotite | Naturita |
| LOWELL STAATS, LESSEE<br>Uravan, Colorado<br>HUMMER MINE<br>Lowell Staats, Manager | Carnotite | Naturita |
| VANADIUM CORPORATION OF AMERICA<br>420 Lexington<br>New York City 17, New York<br>WILD STEER MINE<br>D.W.Viles, Manager<br>Durango, Colorado | Carnotite | Naturita |
| HOLDER, CALLAN & ROCKWELL, LESSEES<br>Dove Creek, Colorado<br>MORNING MINE<br>Carl Holder, Manager | Carnotite | Naturita |
| THOMPSON, THOMPSON & REAMS, LESSEES<br>Dove Creek, Colorado<br>MORNING MINE #1<br>Clifford Reams, Manager | Carnotite | Naturita |
| ALLEN HANCOCK, LESSEE<br>Naturita, Colorado<br>STARLIGHT MINE<br>Allen Hancock, Manager | Carnotite | Naturita |
| H. CONROW<br>Uravan, Colorado<br>LITTLE BASIN MINE<br>H. Conrow, Manager | Carnotite | Uravan |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| R. L. SAGE & ASA BENNETT<br>Nucla, Colorado<br>OPHIR MINE<br>R.L.Sage, Manager | Carnotite | Uravan |
| G. R. BARNES<br>Naturita, Colorado<br>LONG PARK MINE #10<br>G. R. Barnes, Manager | Carnotite | Long Park |
| WILLIAM BENNETT<br>Nucla, Colorado<br>LONG PARK MINE #6<br>William Bennett, Manager | Carnotite | Uravan |
| STURDIVANT & WILLIAMS<br>Naturita, Colorado<br>BLACK DINAH MINE<br>H. Sturdivant, Manager | Carnotite | Uravan |
| MILTON CASTOR<br>Naturita, Colorado<br>DONALD D MINE<br>Milton Castor, Manager | Carnotite | Uravan |
| VANADIUM CORPORATION OF AMERICA<br>420 Lexington Avenue<br>New York City 17, New York<br>DONALD L MINE<br>D. W. Viles, Manager<br>Durango, Colorado | Carnotite | Uravan |
| REID & MC CARTY<br>Nucla, Colorado<br>HIDDEN BASIN MINE<br>Roy Reid, Manager | Carnotite | Uravan |
| LEWIS & JACK PEIFFER, LESSEES<br>Naturita, Colorado<br>COLORADIUM MINE<br>Lewis Peiffer, Manager | Carnotite | Uravan |
| JOSEPH C. PITTS<br>Uravan, Colorado<br>C.F.C. MINE<br>Joseph C. Pitts, Manager | Carnotite | Uravan |
| J. F. HAZEN<br>Naturita, Colorado<br>REPUBLICAN MINE<br>J. F. Hazen, Manager | Carnotite | Uravan |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| LA SALLE MINING COMPANY<br>Box 217<br>Grand Junction, Colorado<br>A.E.C. BLOCK #5<br>Matthew P. Rowe, Manager | Carnotite | Uravan |
| ENOS T. HOLDEMAN<br>1221 Main Street<br>Grand Junction, Colorado<br>MILL NO. 1<br>Enos T. Holdeman, Manager | Carnotite | Uravan |
| VICTOR PORTER<br>Uravan, Colorado<br>MILL NO. 2<br>Victor Porter, Manager | Carnotite | Uravan |
| BUNKER & COMPANY<br>Box 183<br>Naturita, Colorado<br>A.E.C. RESERVE BLOCK NO. 1<br>P.W.Bunker, Manager | Carnotite | Uravan |
| J. L. WALKER & SONS<br>Uravan, Colorado<br>TRAMP MINE<br>J.L.Walker, Manager | Carnotite | Uravan |
| H. W. JOHNSON & H. C. KRUSE<br>Nucla, Colorado<br>PRODUCTION MINE<br>H. W. Johnson, Manager | Carnotite | Uravan |
| FRANK ELDER<br>Box 449<br>Telluride, Colorado<br>BADGER MINE<br>Frank Elder, Manager | Carnotite | Uravan |
| JOHN W. MORRILL<br>Uravan, Colorado<br>HENRY CLAY NO. 2 MINE<br>John W. Morrill, Manager | Carnotite | Uravan |
| CLIMAX URANIUM COMPANY<br>500 Fifth Avenue<br>New York City 18, New York<br>MINERAL JOE INCLINE MINE<br>Marvin L. Kay, Manager<br>Grand Junction, Colorado | Carnotite | Monogram Mesa |

| NAME OF OPERATION | PRODUCT | PROPERTY-LOCATION |
|---|---|---|
| VANADIUM CORPORATION OF AMERICA<br>420 Lexington Avenue<br>New York 17, New York<br>BIG BULL MINE<br>D. W. Viles, Manager<br>Durango, Colorado | Carnotite | Naturita |
| D. C. BUNKER, LESSEE<br>Nucla, Colorado<br>TRIANGULATION MINE<br>D. C. Bunker, Manager | Carnotite | Naturita |
| MAX BARKLEY<br>Dove Creek, Colorado<br>FOX-DOLORES MINE<br>Max Barkley, Manager | Carnotite | Dove Creek |
| CARL YACKEL<br>Naturita, Colorado<br>COTTONWOOD LITTLE GYP MINE<br>Carl Yackel, Manager | Carnotite | Naturita |

OPERATING MINES IN OURAY COUNTY, 1951

| | | |
|---|---|---|
| THE SOUTHWEST METALS COMPANY<br>Ouray, Colorado<br>MICHAEL BREEN MINE<br>Oren Fulgum, Manager | Gold<br>Silver<br>Lead<br>Zinc | Ouray |
| MELVIN BRUGGER & ASSOCIATES<br>1032 East Platte Avenue<br>Colorado Springs, Colorado<br>GENESSEE TUNNEL<br>Melvin Brugger, Manager | Silver<br>Copper<br>Lead<br>Zinc | Ouray |
| WILLIAM CANAVAN & ASSOCIATES<br>Ouray, Colorado<br>BOX CANYON LEASE<br>William Canavan, Manager | Silver<br>Lead<br>Zinc | Ouray |
| IDARADO MINING COMPANY<br>14 Wall Street<br>New York 5, New York<br>TREASURY TUNNEL<br>Fred Wise, Manager<br>Ouray, Colorado | Gold<br>Silver<br>Copper<br>Lead<br>Zinc | Ouray |
| O. C. BAKER & ASSOCIATES<br>Ouray, Colorado<br>JACK POT MINE<br>O.C.Baker, Manager | Gold<br>Silver<br>Lead<br>Zinc | Ouray |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| FRED ZANETT, LESSEE<br>Ouray, Colorado<br>GOVERNOR MINE<br>Fred Zanett, Manager | Gold<br>Silver<br>Lead<br>Zinc | Ouray |
| WILLIAM NICKOLS<br>500 Main Street<br>Montrose, Colorado<br>LOST DAY MINE<br>William Nickols, Manager | Silver<br>Lead | Ouray |
| MORNING DEVELOPMENT COMPANY<br>804 Chipeta Avenue<br>Grand Junction, Colorado<br>BROWN MOUNTAIN MINE<br>Ben Simpson, Manager<br>Beaumont Hotel<br>Ouray, Colorado | Silver<br>Lead | Ouray |
| G. & G. MINING COMPANY, INCORPORATED<br>Ouray, Colorado<br>IDA L MINE<br>Kenneth Garrard, Manager<br>Beaumont Hotel<br>Ouray, Colorado | Gold<br>Silver<br>Lead<br>Zinc | Ouray |
| W. R. NICKOLS & ASSOCIATES<br>500 Main Street<br>Montrose, Colorado<br>STEEL GALENA MINE<br>William Nickols, Manager | Silver<br>Lead | Ouray |
| SILVER TIP GOLD CROWN MINING<br>& MILLING COMPANY<br>Ouray, Colorado<br>KENTUCKY GIANTS MINE<br>James G. Hicks, Manager | Gold<br>Silver<br>Lead<br>Zinc | Ironton |
| GEORGE BAUMBARDNER<br>Ridgway, Colorado<br>ALTOONA GROUP MINE<br>George Baumgardner, Manager | Gold<br>Silver<br>Lead<br>Zinc | Ouray |
| JOHN D. CRIM<br>Ouray, Colorado<br>MINERAL FARMS MINE<br>John D. Crim, Manager | Silver<br>Lead<br>Zinc | Ouray |
| YELLOW ROSE LEASING COMPANY<br>Ouray, Colorado<br>YELLOW ROSE MINE<br>Keith P. Johnson, Manager | Gold<br>Silver<br>Lead<br>Zinc | Ouray |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| WILLIAM CANAVAN, JR.<br>Ouray, Colorado<br>OLD MINERAL FARM MINE<br>William Canavan, Jr., Manager | Sulphides<br>Lead<br>Silver<br>Copper<br>Zinc | Ouray |
| BACHELOR DEVELOPMENT COMPANY<br>Ouray, Colorado<br>BACHELOR MINE<br>J.R.Sonza, Manager | Lead<br>Zinc<br>Silver<br>Gold | Ouray |
| DR. J. R. MARTIN & ASSOCIATES<br>703 Central Avenue<br>Los Angeles 21, California<br>GUADALUPE MINE<br>J.R.Martin, Manager | Silver<br>Lead<br>Copper<br>Zinc | Ouray |
| FRANKLIN CONSOLIDATED MINING &<br>MILLING CORPORATION<br>203 Keeble Street<br>KNOXVILLE, TENNESSEE<br>RUBY TRUST MINE<br>W.C.Franklin, Manager<br>Ouray, Colorado | Fluorspar<br>Gold<br>Silver | Ouray |
| KING LEASE INCORPORATED<br>Ouray, Colorado<br>CAMP BIRD MINE<br>Harold Worchester, Manager | Gold<br>Silver<br>Copper<br>Lead<br>Zinc | Ouray |
| PUM RICE & CAROL CHARLES<br>Delta, Colorado<br>SOUTH DAKOTA MINE<br>Pum Rice, Manager | Gold<br>Silver<br>Copper<br>Lead<br>Zinc | Ouray |

OPERATING MINES IN SAN JUAN COUNTY, 1951

| | | |
|---|---|---|
| OLD HUNDRED GOLD MINING COMPANY<br>Box 448<br>Silverton, Colorado<br>GARRY OWEN MINE<br>Ben Webster, Manager | Gold<br>Silver<br>Copper<br>Lead<br>Zinc | Silverton |
| PRIDE OF THE WEST, INCORPORATED<br>Silverton, Colorado<br>PRIDE OF THE WEST MINE<br>William L. Chase, Manager | Gold<br>Silver<br>Lead<br>Zinc | Silverton |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| PRIDE OF THE WEST, INCORPORATED<br>Silverton, Colorado<br>GREEN MOUNTAIN MINE<br>William L. Chase, Manager | Gold<br>Silver<br>Lead<br>Zinc | Silverton |
| SHENANDOAH - DIVES MINING COMPANY<br>Silverton, Colorado<br>SHENANDOAH-DIVES MINE<br>Charles A. Chase, Manager | Gold<br>Silver<br>Lead<br>Zinc | Silverton |
| LEAD CARBONATE MINES INCORPORATED<br>Box 186<br>Silverton, Colorado<br>LEAD CARBONATE MINE<br>H.P.Ehrlinger, Manager | Gold<br>Silver<br>Copper<br>Lead<br>Zinc | Silverton |
| VANADIUM CORPORATION OF AMERICA<br>420 Lexington Avenue<br>New York City, New York<br>GRAYSILL GROUP MINES 1,2,3,4,5,6,7,8,9<br>R.J.Anderson, Manager<br>Durango, Colorado | Roscolite<br>Carnotite | Durango |
| WILLIAM ERICKSON<br>Silverton, Colorado<br>COLUMBUS MINE<br>William Erickson, Manager | Silver<br>Lead<br>Zinc | Silverton |
| GALENA QUEEN LEASING COMPANY<br>Silverton, Colorado<br>GALENA QUEEN MINE<br>Glenn Gardner, Manager<br>Victor, Colorado | Silver<br>Lead<br>Zinc | Silverton |
| UTE MINING COMPANY<br>Box 1388<br>Durango, Colorado<br>LITTLE IDA MINE<br>Fred Brinker, Manager<br>1139 Main Avenue<br>Durango, Colorado | Silver<br>Lead<br>Zinc | Silverton |
| KENNETH E. KNAPP & ASSOCIATES<br>Box 614<br>Silverton, Colorado<br>CALEDONIAN MINE<br>Kenneth E. Knapp, Manager | Silver<br>Lead<br>Zinc | Silverton |
| WAYNE LOEL<br>804 Subway Terminal Building<br>Los Angeles, California<br>KITTIMAC MINE<br>R.M.Andreatta, Manager<br>Silverton, Colorado | Silver<br>Lead<br>Zinc | Silverton |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| C. W. FLEMING & ASSOCIATES<br>Silverton, Colorado<br>GREAT EASTERN MINE<br>C.W.Fleming, Manager | Silver<br>Lead<br>Zinc | Silverton |
| KENNETH E. KNAPP & ASSOCIATES<br>Box 614<br>Silverton, Colorado<br>BURROWS MINE<br>K.E.Knapp, Manager | Silver<br>Lead<br>Zinc | Animas Forks |
| DAVE MC CLURE & CORKY SHERER<br>Silverton, Colorado<br>WASHINGTON MINE<br>Corky Sherer, Manager | Silver<br>Lead<br>Zinc | Ouray |
| JOHN M. COOK & ASSOCIATES<br>Silverton, Colorado<br>GOLD PRINCE MINE<br>William Genetta, Manager | Silver<br>Lead<br>Zinc | Silverton |
| MORENO CRIPPLE CREEK CORPORATION<br>502 Symes Building<br>Denver, Colorado<br>SILVER QUEEN MINE<br>Ray A. Bennett, Manager | Gold<br>Silver<br>Lead<br>Zinc | Silverton |
| SILVER BAY MINES INCORPORATED<br>Silverton, Colorado<br>OCCIDENTAL MINE<br>C.V.Lilenquist, Manager | Silver<br>Lead<br>Zinc | Silverton |
| UNITED STATES OIL & METALS COMPANY<br>Mercantile Building<br>Denver, Colorado<br>HENRIETTA MINE<br>A.O.Wilson, Manager<br>Silverton, Colorado | Silver<br>Lead<br>Zinc | Silverton |
| SILVER BAY MINING COMPANY<br>Silverton, Colorado<br>BULLION KING MINE<br>C.V.Lilenquist, Manager | Gold<br>Silver<br>Lead<br>Zinc | Silverton |
| AMERICAN ZINC, LEAD & SMELTING COMPANY<br>1600 Paul Brown Building<br>Saint Louis 1, Missouri<br>CALEDONIAN MINE<br>Kenneth E. Knapp, Manager<br>Silverton, Colorado | Gold<br>Silver<br>Copper<br>Lead<br>Zinc | Silverton |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| SILVER BAY MINES INCORPORATED<br>Silverton, Colorado<br>BLACK HAWK MINE<br>C.V.Lilenquist, Manager | Silver<br>Lead<br>Zinc | Silverton |
| SILVER LEDGE MINES COMPANY<br>Silverton, Colorado<br>SILVER LEDGE MINE<br>Joe Bradley, Manager | Silver<br>Lead<br>Zinc | Silverton |
| H. E. WALBY & ASSOCIATES<br>Box 253<br>Ouray, Colorado<br>OHIO MINE<br>H.E.Walby, Manager | Gold<br>Silver<br>Copper<br>Lead<br>Zinc | Red Mountain |
| GREAT DIVIDE MINING & MILLING CORPORATION<br>Silverton, Colorado<br>GREAT DIVIDE MINE<br>Harold A. Waddington, Manager | Gold<br>Silver | Silverton |
| FRANK RANDALL<br>401 West Colfax Avenue<br>Denver, Colorado<br>LONDON MINE<br>William Erickson, Manager<br>Silverton, Colorado | Silver<br>Lead<br>Zinc | Silverton |
| ROSENQUIST, ROGERS, CONLEY<br>Box 223<br>Naturita, Colorado<br>MAIN STREET MINE<br>Homer N. Rosenquist, Manager | Carnotite | Bull Canyon |
| BONITA MINING & DEVELOPMENT COMPANY<br>Silverton, Colorado<br>BONITA MINING & DEVELOPMENT<br>COMPANY MINES<br>H.P.Ehrlinger, Manager<br>Box 186<br>Silverton, Colorado | Gold<br>Silver<br>Lead<br>Zinc<br>Copper | Silverton |
| COLORADO GOLD KING, INCORPORATED<br>Box 186<br>Silverton, Colorado<br>GOLD KING MINE<br>H.P.Ehrlinger, Manager | Gold<br>Silver<br>Lead | Silverton |
| COLORADO GOLD KING, INCORPORATED<br>Box 186<br>Silverton, Colorado<br>GOLDEN MONARCH MINE<br>H.P.Ehrlinger, Manager | Gold<br>Silver<br>Lead | Silverton |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| CEMENT CREEK LEASING COMPANY<br>Box 186<br>Silverton, Colorado<br>CEMENT CREEK LEASING COMPANY MINE<br>H.P.Ehrlinger, Manager | Gold<br>Silver<br>Lead<br>Zinc | Silverton |

OPERATING MINES IN SAN MIGUEL COUNTY, 1951

| | | |
|---|---|---|
| IDARADO MINING COMPANY<br>Ouray, Colorado<br>MELDRUM TUNNEL<br>Fred Wise, Manager | Gold<br>Silver<br>Copper<br>Lead<br>Zinc | Telluride |
| TELLURIDE MINES INCORPORATED<br>Telluride, Colorado<br>TELLURIDE MINES<br>C.F.Parker, Jr., Manager | Gold<br>Silver<br>Copper<br>Lead<br>Zinc | Telluride |
| THE SILVER BELL MINES COMPANY<br>Box 393<br>Ophir, Colorado<br>SILVER BELL MINE<br>A.A.Smith, Manager | Gold<br>Silver<br>Copper<br>Lead<br>Tungsten | Telluride |
| EVERETT BLACKBURN, LESSEE<br>Placerville, Colorado<br>BEAR CREEK MINE<br>Everett Blackburn, Manager | Roscoelite | Telluride |
| EVERETT BLACKBURN, LESSEE<br>Placerville, Colorado<br>FALL CREEK MINE<br>Everett Blackburn, Manager | Roscoelite | Placerville |
| HARRY BENNETT & LAWRENCE ROSS, LESSEES<br>Placerville, Colorado<br>FALL CREEK MINE, FRAZIER GROUP<br>Harry Bennett, Manager | Roscoelite | Placerville |
| CARL YACKEL<br>Naturita, Colorado<br>BIG GYP MINE<br>Carl Yackel, Manager | Carnotite | Naturita |
| VANADIUM CORPORATION OF AMERICA<br>Naturita, Colorado<br>MESA #2 MINE<br>Booth Eckman, Manager | Carnotite | Naturita |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| L. E. BUNCH & BROTHERS<br>Naturita, Colorado<br>CEDAR RIDGE MINE<br>L.E.Bunch, Manager | Carnotite | Naturita |
| L. L. FOSTER<br>Telluride, Colorado<br>COTTONWOOD MINE<br>Albert Garbireno<br>Dolores, Colorado | Carnotite | Naturita |
| M. D. BARNES<br>Naturita, Colorado<br>MORNING STAR MINE<br>M.D.Barnes, Manager | Carnotite | Naturita |
| C. WILHITE, LESSEE<br>Naturita, Colorado<br>YELLOW BIRD MINE<br>C.Wilhite, Manager | Carnotite | Naturita |
| MAY DAY LEASING COMPANY<br>Silverton, Colorado<br>MAY DAY MINE<br>Ennis Cole, Manager | Gold<br>Silver<br>Lead<br>Zinc | Silverton |
| URAVAN CORPORATION<br>1300 Lincoln Street<br>Denver, Colorado<br>MIDNIGHT MINE<br>Robert Snyder, Manager | Carnotite | Slick Rock |
| HENRY HOLLING, LESSEE<br>Box 7<br>Egnar, Colorado<br>COUGER-LAST CHANCE & OTHER MINES<br>Henry Holling, Manager | Carnotite | Slick Rock |
| DULANEY MINING COMPANY<br>312 First National Bank Building<br>Grand Junction, Colorado<br>EASTON B MINE<br>R.O.Dulaney, Manager | Carnotite | Egnar |
| DULANEY MINING COMPANY<br>312 First National Bank Building<br>Grand Junction, Colorado<br>MICHAEL BREA MINE<br>R.O.Dulaney, Manager | Carnotite | Egnar |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| J. B. CRAWLEY MINES INCORPORATED<br>Box 294<br>Dove Creek, Colorado<br>J.B.CRAWLEY MINES<br>C.E.Downs, Manager<br>Egnar, Colorado | Carnotite | Egnar |
| NIELSON & LARSON MINING COMPANY<br>Huntington, Utah<br>NIELSON & LARSON MINE<br>Scott Neilson, Manager<br>Egnar, Colorado | Carnotite | Egnar |
| THE EASTRIDGE COMPANY<br>Box 559<br>Ouray, Colorado<br>ANDRUS MINE<br>A.E.Dirrim, Manager | Gold<br>Silver<br>Lead<br>Zinc | Ouray |
| DULANEY MINING COMPANY<br>312 First National Bank Building<br>Grand Junction, Colorado<br>O'NEILL GROUP MINES<br>R.O.Dulaney, Manager | Carnotite | Dove Creek |
| ARTHUR CANFIELD<br>Box 84<br>Dove Creek, Colorado<br>CANFIELD LEASE<br>Arthur Canfield, Manager | Carnotite | Egnar |
| JOSEPH HANSON<br>Nucla, Colorado<br>NORMA JEAN MINE<br>Joseph Hanson, Manager | Carnotite | Egnar |
| ORTMAYER MINING COMPANY<br>1037 Ouray<br>Grand Junction, Colorado<br>FRENCHIE MINE<br>W.E.Haldane, Manager | Carnotite | Egnar |
| ORTMAYER MINING COMPANY<br>1037 Ouray<br>Grand Junction, Colorado<br>KING INCLINE MINE<br>W.E.Haldane, Manager | Carnotite | Egnar |
| WARREN KUYKENDALL<br>Summit Point, Utah<br>PITCHFORK MINE<br>Warren Kuykendall, Manager | Carnotite | Naturita |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| TOM SKIDMORE, LESSEE<br>Box 311<br>Dove Creek, Colorado<br>KING MINE #2<br>Tom Skidmore, Manager | Carnotite | Egnar |
| TOM SKIDMORE, LESSEE<br>Box 311<br>Dove Creek, Colorado<br>SAM MINE<br>W. R. Bronson, Manager<br>Monticello, Utah | Carnotite | Egnar |
| FRANK GEORGE<br>Ouray, Colorado<br>JAPAN FLORA MINE<br>Frank George, Manager | Gold<br>Silver<br>Lead<br>Zinc | Telluride |
| SILVER BELL MINES COMPANY<br>701 U. S. National Bank Building<br>Denver, Colrado<br>CARBONERO MINE<br>A.A.Smith, Manager<br>Ophir, Colorado | Gold<br>Silver<br>Lead<br>Copper<br>Zinc | Ophir Loop |
| MONARCH MINES INCORPORATED OF WISCONSIN<br>1819 South 71st Street<br>Milwaukee, Wisconsin<br>BUTTERFLY MINE<br>Adelbert McCluskey, Manager<br>Telluride, Colorado | Silver<br>Copper<br>Lead<br>Zinc | Ophir Loop |
| PARAGON MINES INCORPORATED<br>Ophir, Colorado<br>SAN BERNARDO MINE<br>Otto Beselack, Manager | Gold<br>Silver<br>Lead<br>Zinc | Matterhorn |
| W. R. MC CORMICK<br>Dove Creek, Colorado<br>ELOUISA MINE<br>W.R.McCormick, Manager | Carnotite | Egnar |
| FRANK & KENNETH CHARLES<br>Egnar, Colorado<br>FALCON MINE<br>Frank Charles, Manager | Carnotite | Egnar |
| CLARENCE L. NEILSON<br>Box 875<br>Uravan, Colorado<br>JOE DANDY MINE<br>Clarence L. Neilson, Manager | Carnotite | Egnar |

## OPERATING QUARRIES AND CLAY PITS, 1951

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| **BOULDER COUNTY** | | |
| UNIVERSITY OF COLORADO<br>Boulder, Colorado<br>PICKETT QUARRY<br>Raymond W. Lind, Manager | Red Sandstone | Boulder |
| DEWEY H. SUMMERS<br>Box 6<br>Lyons, Colorado<br>SUMMERS QUARRY<br>Dewey H. Summers, Manager | Red Sandstone | Lyons |
| JESS VICKERY<br>Box 255<br>Jamestown, Colorado<br>WHITE STONE QUARRY<br>Jess Vickery, Manager | Red Sandstone | Lyons |
| JACK PERKINS<br>Lyons, Colorado<br>PERKINS QUARRY<br>Jack Perkins, Manager | Red Sandstone | Lyons |
| DENVER ROCK VENEER COMPANY<br>700 West Colfax Avenue<br>Denver, Colorado<br>DENVER ROCK QUARRY<br>J.F.Sharp, Manager | Red Sandstone | Lyons |
| COLORADO STONE COMPANY<br>Box 596<br>Longmont, Colorado<br>RED STONE QUARRY<br>L.D.Stenette, Manager<br>Route 1, Box 338<br>Longmont, Colorado | Red Sandstone | Lyons |
| ARTHUR OHLINE<br>Lyons, Colorado<br>OHLINE QUARRY<br>Arthur Ohline, Manager | Red Sandstone | Lyons |
| **CHAFFEE COUNTY** | | |
| COLORADO GRANITE COMPANY<br>Salida, Colorado<br>COLORADO GRANITE FINISHING PLANT<br>John Herschberger, Manager | Granite | Salida |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| MAGNUSON & SON<br>1333 West Maple Avenue<br>Denver, Colorado<br>SODA SPAR QUARRY<br>John Falgien, Manager<br>Salida, Colorado | Soda Spar | Salida |
| JAMES STRAH<br>Box 213<br>Salida, Colorado<br>MICA BERYL QUARRY<br>James Strah, Manager | Feldspar<br>Mica<br>Beryl | Salida |
| F. C. HARVEY<br>Box 586<br>Salida, Colorado<br>CALCIUM QUARRY<br>F.C.Harvey, Manager | Calcium | Salida |
| UTAH CONSTRUCTION COMPANY<br>57 East 4th Street<br>Salt Lake City, Utah<br>MONARCH QUARRY PROJECT<br>George V. Smith, Manager<br>Garfield, Colorado | Stripping<br>Monarch<br>Quarry | Salida |
| COLORADO FUEL & IRON CORPORATION<br>Box 316<br>Pueblo, Colorado<br>MONARCH LIME QUARRY<br>James Whitney, Manager<br>Salida, Colorado | Limerock | Salida |
| HARVEY S. MOYER<br>Ocean-To-Ocean Camp<br>Salida, Colorado<br>ROCK KING FELDSPAR QUARRY<br>Harvey S. Moyer, Manager | Feldspar<br>Beryl | Salida |
| JAMES STRAH<br>Box 213<br>Salida, Colorado<br>YELLOW GOLD QUARRY<br>James Strah, Manager | Marble | Salida |
| COLORADO WESTERN LAND COMPANY<br>136 Lower F Street<br>Salida, Colorado<br>LONGS GULCH PLACER QUARRY<br>G.M.Chambers, Manager | Beryl<br>Mica<br>Feldspar | Salida |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| ROBERT M. YARD<br>840 South 6th Street<br>Canon City, Colorado<br>PINK LADY QUARRY<br>Robert M. Yard, Manager | Feldspar | Salida |
| **CUSTER COUNTY** | | |
| ALEXITE ENGINEERING COMPANY<br>Alexander Film Building<br>Colorado Springs, Colorado<br>JOHN CLARE & WILFLEY QUARRY<br>Ray Ebeling, Manager | Perlite | Rosita |
| PERLITE MINING COMPANY<br>2131 Orman Street<br>Pueblo, Colorado<br>EVANS PERLITE QUARRY<br>Frank Ratliff, Manager | Perlite | Westcliffe |
| **DOUGLAS COUNTY** | | |
| ROBINSON BIRCK & TILE COMPANY<br>500 South Santa Fe<br>Denver, Colorado<br>HOGBACK QUARRY<br>John Higbee, Manager | Fire Clay | Waterton |
| T. C. HELMER<br>Box 94<br>Littleton, Colorado<br>HELMER SAND & LIME QUARRY<br>T.C.Helmer, Manager | Sand<br>Limestone | Silica |
| STROUD WHISENHUNT<br>Castle Rock, Colorado<br>JOHNSON CLAY MINE<br>Stroud Whisenhunt, Manager | Clay | Castle Rock |
| M & S COMPANY<br>Box 671<br>Salida, Colorado<br>CRAMER QUARRY<br>John Falgien, Manager | Feldspar | Sedalia |
| **EL PASO COUNTY** | | |
| NIXON BROTHERS<br>2327 West Kiowa Street<br>Colorado Springs, Colorado<br>LITTLE FOUNTAIN QUARRY<br>Phillip Nixon, Manager | Crushed Rock | Colorado Springs |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| C. RYAN & SON<br>Box 7828<br>Lakewood, Colorado<br>LENNOX BREED QUARRY<br>O.E.Hartley, Manager<br>Colorado Springs, Colorado | Limestone<br>Dolomite | Colorado Springs |
| R. A. BARBER<br>Motor Route #3<br>Colorado Springs, Colorado<br>HECLA CLAY PIT<br>R.A.Barber, Manager | Clay | Colorado Springs |
| **FREMONT COUNTY** | | |
| COLORADO FUEL & IRON CORPORATION<br>Box 316<br>Pueblo, Colorado<br>DOLOMITE QUARRY<br>E.C.Jagow, Manager<br>406 West Douglas<br>Canon City, Colorado | Dolomite | Canon City |
| RAY B. STURBAUM & SON<br>225 Main Street<br>Canon City, Colorado<br>BURNITO GANISTER QUARRY<br>Ray B. Sturbaum, Manager | Ganister | Canon City |
| STANDARD FIRE BRICK COMPANY<br>Box 654<br>Pueblo, Colorado<br>PENROSE QUARRY<br>Dale Hoover, Manager | Silica Rock | Canon City |
| FREEMAN FIRE BRICK COMPANY<br>309 South 11th Street<br>Canon City, Colorado<br>FREEMAN FIRE BRICK PLANT<br>C.A.Freeman, Manager<br>1025 Greenwood Avenue<br>Canon City, Colorado | Fire Brick | Canon City |
| NAT SENATORE<br>Penrose, Colorado<br>COALDALE GYPSUM QUARRY<br>Nat Senatore, Manager | Gypsum | Coaldale |
| COLONNA & COMPANY OF COLORADO<br>Box 387<br>Canon City, Colorado<br>TERRAZZO PLANT &<br>TRAVERTINE QUARRY<br>George E. Smith, Manager | Terazzo Chips<br>Travertine Blocks | Canon City |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| J. E. & DAVID COWAN<br>227 Main Street<br>Canon City, Colorado<br>COWAN BROTHERS TRAVERTINE QUARRY<br>J.E. & David Cowan, Managers | Travertine Blocks | Canon City |
| LOUIS O. HARDESTY<br>919 Plum Street<br>Canon City, Colorado<br>SCHOOL SECTION QUARRY<br>Louis O. Hardesty, Manager | Feldspar<br>Mica | Canon City |
| COLORADO LIMESTONE COMPANY<br>Coaldale, Colorado<br>JAMES & CAROCCIA QUARRY<br>Porter James, Manager | Ground Gypsum | Coaldale |
| IDEAL CEMENT COMPANY<br>Portland, Colorado<br>PORTLAND QUARRY<br>S.A.Gretencort, Manager | Limestone<br>Shale<br>Sandrock | Florence |
| IDEAL CEMENT COMPANY<br>Portland, Colorado<br>PORTLAND CEMENT PLANT<br>S.A.Gretencort, Manager | Cement | Florence |
| IDEAL CEMENT COMPANY<br>Portland, Colorado<br>PORTLAND PLASTER PLANT<br>S.A.Gretencort, Manager | Plaster<br>Agricultural Gypsum<br>Rock Dust | Florence |
| HOMER ROBINSON<br>Canon City, Colorado<br>OAK CREEK LODE #1<br>Homer Robinson, Manager | Feldspar | Canon City |
| S. N. MC CARTY, WILLIAM CRAVEN & C.C.NICHOLS<br>Canon City, Colorado<br>OAK CREEK LODE #2<br>S.N.McCarty, Manager<br>Ott Hotel<br>Canon City, Colorado | Feldspar | Canon City |
| FRANK H. NORBERG<br>703 U. S. National Bank Building<br>Denver, Colorado<br>TRAVERTINE QUARRY<br>Frank H. Norberg, Manager | Limestone | Wellesville |
| CONSOLIDATED FELDSPAR CORPORATION<br>Parkdale, Colorado<br>MICA LODE QUARRY<br>A.E.Boone, Manager | Feldspar<br>Mica<br>Beryl | Canon City |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| FRANK H. NORBERG<br>703 U. S. National Bank Building<br>Denver, Colorado<br>NORBERG CRUSHING PLANT<br>Frank H. Norberg, Manager | Crushed<br>Limestone | Wellesville |
| THE COLORADO LIMESTONE COMPANY<br>Box 8<br>Howard, Colorado<br>CALCITE QUARRY<br>A.J.Caroccia, Manager | Limestone | Howard |
| PIERCE BROTHERS<br>Canon City, Colorado<br>DEVIL'S HOLE QUARRY<br>James Pierce, Manager | Feldspar<br>Mica<br>Beryl | Canon City |
| C. M. & EARL MC DANIEL<br>856 Griffin Avenue<br>Canon City, Colorado<br>SPIKE BUCK QUARRY<br>C.M.McDaniel, Manager | Feldspar<br>Mica | Canon City |
| SALIDA TRANSFER COMPANY<br>Salida, Colorado<br>BLACK HAWK, BLACK CROW<br>& WASHINGTON QUARRIES<br>August Achilbein, Manager | Calcite | Coaldale |
| W. H. SCHAFF & ARCHIE ELLIS<br>Canon City, Colorado<br>FELDSPAR LODES 1,2,3,4,5<br>Archie Ellis, Manager | Feldspar | Coaldale |
| CHARLES ANDERSON<br>O. to O. Court<br>Salida, Colorado<br>MORNING STAR QUARRY<br>Charles Anderson, Manager | Feldspar | Copper Gulch |
| ROBERT M. YARD<br>840 South 6th Street<br>Canon City, Colorado<br>BAUMER HERMSTEIN QUARRY<br>Robert M. Yard, Manager | Feldspar<br>Beryl<br>Mica<br>Tantalite | Royal Gorge |
| EDGAR REIGEL<br>Box 103<br>Canon City, Colorado<br>JIM DANDY QUARRY<br>Edgar Reigel, Manager | Feldspar<br>Mica<br>Beryl | Phantom Canon |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| COLONNA & COMPANY OF COLORADO<br>Box 387<br>Canon City, Colorado<br>ENGLISH QUARRY<br>George E. Smith, Manager | Marble | Marble |
| LACLEDE - CHRISTY COMPANY OF COLORADO<br>Canon City, Colorado<br>LACLEDE-CHRISTY COMPANY OF COLORADO QUARRIES<br>Floyd W. Taylor, Manager | Silica<br>Fire Clay | Canon City |
| R. M. YARD<br>840 South 6th Street<br>Canon City, Colorado<br>PINE TREE 8 MILE QUARRY<br>R.M.Yard, Manager | Beryl<br>Feldspar<br>Mica | Canon City |
| JOHN HERSHBERGER & ASSOCIATES<br>Salida, Colorado<br>LONG HUNT QUARRY<br>John Hershberger, Manager | Granite | Wellsville |
| **GARFIELD COUNTY** | | |
| FRANK H. NORBERG COMPANY<br>703 U. S. National Bank Building<br>Denver, Colorado<br>GLENWOOD LIME QUARRY<br>Frank H. Norberg, Manager | Limerock | Glenwood Springs |
| **GUNNISON COUNTY** | | |
| BERYLLIUM MINING COMPANY, INCORPORATED<br>920 Second Avenue<br>Seattle 4, Washington<br>BERYLLIUM MINING COMPANY, INCORPORATED QUARRY<br>Charles A. Wemlinger, Manager<br>Box 276<br>Gunnison, Colorado | Beryl<br>Columbite<br>Scrap Mica | Gunnison |
| **JEFFERSON COUNTY** | | |
| COORS PORCELAIN COMPANY<br>Golden, Colorado<br>COORS CLAY MINES & PLANT<br>P. Carsin, Manager | Silica Rock<br>Red Clay | Golden |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| DENVER TERRA COTTA COMPANY<br>West First Avenue & Umatilla<br>Denver, Colorado<br>DENVER TERRA COTTA QUARRY<br>Roy Marks, Manager | Clay | Fireclay |
| GOLDEN CLAY MINING COMPANY<br>Box 296<br>Golden, Colorado<br>GOLDEN CLAY MINE<br>George W. Mueller, Manager | Clay | Golden |
| GEORGE W. LINDSAY<br>1931 Forest Street<br>Denver 7, Colorado<br>LINDSAY CLAY MINE<br>George Lindsay, Manager | Clay | Golden |
| DENVER FIRE CLAY COMPANY<br>2301 Blake Street<br>Denver, Colorado<br>NORTH CLAY MINE<br>R.C.Shepard, Manager<br>Box 8810<br>Denver, Colorado | Clay | Golden |
| H. M. RUBEY CLAY COMPANY<br>Golden, Colorado<br>RUBEY CLAY MINE<br>William G. Parfet, Manager | Clay | Golden |
| DENVER FIRE CLAY COMPANY<br>2301 Blake Street<br>Denver, Colorado<br>SOUTH CLAY MINE<br>R.C.Shepard, Manager<br>Box 8810<br>Denver, Colorado | Clay | Golden |
| DENVER SEWER PIPE & CLAY COMPANY<br>4501 Fox Street<br>Denver, Colorado<br>STRAINLAND CLAY MINE<br>C.M.Osher, Manger | Clay | Golden |
| G. W. PARFET ESTATE, INCORPORATED<br>Linder Block<br>Golden, Colorado<br>PARFET CLAY MINE<br>William G. Parfet, Manager | Clay | Golden |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| DENVER CRUSHED STONE COMPANY<br>Golden, Colorado<br>NORTH TABLE MOUNTAIN QUARRY<br>C.A.Broecker, Manager | Basalt Rock | Golden |
| DENVER SEWER PIPE & CLAY COMPANY<br>4501 Fox Street<br>Denver 16, Colorado<br>JOHNSON QUARRY<br>William J. Geddes, Manager | Clay | Golden |
| CASS COMPANY CONTRACTORS<br>Ogallala, Nebraska<br>BERTRAND QUARRY<br>R.S.Saathoff, Manager | Granite | Golden |
| W. E. & T. COMPANY<br>Morrison, Colorado<br>BIGGERS QUARRY<br>L.L.Erickson, Manager | Beryl | Tiny Town |
| ROBINSON BRICK & TILE COMPANY<br>500 South Santa Fe<br>Denver, Colorado<br>STRANGER QUARRY<br>John Higby, Manager | Clay | Golden |
| **LAKE COUNTY** | | |
| STANDARD FIRE BRICK COMPANY<br>24th and Albany<br>Pueblo, Colorado<br>PINE VIEW PLACER<br>Dale Hoover, Manager<br>Parkdale, County | Ganister | Tennessee Pass<br>Leadville |
| **LARIMER COUNTY** | | |
| UNITED STATES BYPSUM COMPANY<br>300 West Adams Street<br>Chicago 6, Illinois<br>UNITED STATES GYPSUM QUARRY<br>J.R.Miner, Manager<br>Loveland, Colorado | Gypsum | Loveland |
| FORT COLLINS BRICK & TILE COMPANY<br>209 Colorado Building<br>FORT COLLINS BRICK & TILE COMPANY<br>Don Spawr, Manager | Clay | Fort Collins |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| E. W. MUNROE<br>Route 2, Box 273<br>Fort Collins, Colorado<br>GOODWIN GYPSUM QUARRY<br>E.W.Munroe, Manager | Gypsum | Fort Collins |
| FRANK H. NORBERG COMPANY<br>703 U. S. National Bank Building<br>Denver, Colorado<br>REX QUARRY<br>William Wayker, Manager | Limestone | Owl Canyon |
| C. S. COAKLEY<br>Route 3, Box 4<br>Fort Collins, Colorado<br>ALABASTER QUARRY<br>C.S.Coakley, Manager | Alabaster | Wellington |
| IDEAL CEMENT COMPANY<br>Denver National Bank Building<br>Denver, Colorado<br>LA PORTE QUARRY<br>D.O.Howe, Manager<br>Box 503<br>Fort Collins, Colorado | Limestone<br>Gypsum | LaPorte |
| ROBERT B. O'BRIAN<br>1510 Teller Street<br>Lakewood, Colorado<br>ARKINS QUARRY<br>R.B.O'Brian, Manager | Red<br>Sandstone | Masonville |
| **LAS ANIMAS COUNTY** | | |
| TRINIDAD BIRCK & TILE COMPANY<br>Trinidad, Colorado<br>NEW MARY QUARRY<br>Fred Nichols, Manager | Fire Clay | Starkville |
| TRINIDAD BRICK & TILE COMPANY<br>Trinidad, Colorado<br>TRINIDAD BRICK PLANT<br>Fred Nichols, Manager | Fire Brick<br>Tile | Trinidad |
| **OTERO COUNTY** | | |
| COLORADO ALABASTER COMPANY<br>901 West 4th Street<br>LaJunta, Colorado<br>ALABASTER PLANT<br>Elza Owen, Manager | Alabaster | LaJunta |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| **PARK COUNTY** | | |
| ROBERT M. YARD<br>840 South 6th Street<br>Canon City, Colorado<br>MYERS RANCH<br>Robert M. Yard, Manager | Beryl<br>Feldspar<br>Mica | Canon City |
| **PUEBLO COUNTY** | | |
| ARTHUR L. WANDS<br>Stone City, Colorado<br>NELLIE HELEN QUARRY<br>Arthur L. Wands, Manager | Fire Clay | Stone City |
| PUEBLO CLAY PRODUCTS COMPANY<br>Box 1657<br>Pueblo, Colorado<br>SPRING CANON QUARRY<br>W.M.Thomas, Manager | Fire Clay | Stone City |
| PUEBLO CLAY PRODUCTS COMPANY<br>Box 1657<br>Pueblo, Colorado<br>STONE CITY CLAY MINE<br>W.N.Thomas, Manager | Fire Clay | Stone City |
| STANDARD FIRE BRICK COMPANY<br>Box 650<br>Pueblo, Colorado<br>STANDARD FIRE BRICK QUARRY<br>John L. McFarlane, Manager | Fire Brick<br>Silica Brick<br>Sewer Pipe | Pueblo |
| MINNEQUA SALVAGE COMPANY<br>Box 1332<br>Pueblo, Colorado<br>C. F. & I. DUMP<br>Eugene Untermeyer, Manager | Scrap Metal | Pueblo |
| STANDARD FIRE BRICK COMPANY<br>Box 654<br>Pueblo, Colorado<br>CHAMBLIN QUARRY<br>James McDowell, Manager | Plastic &<br>Flint Fire Clay | Pueblo |
| STANDARD FIRE BRICK COMPANY<br>Box 654<br>Pueblo, Colorado<br>ROCK CREEK QUARRY<br>Paul Drumm, Manager<br>510 Ogden<br>Pueblo, Colorado | Plastic &<br>Flint Fire Clay | Pueblo |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| STANDARD FIRE BRICK COMPANY<br>Box 654<br>Pueblo, Colorado<br>BLACK CUT QUARRY<br>James McDowell, Manager | Plastic &<br>Flint Fire Clay | Pueblo |
| SUMMIT PRESSED BRICK & TILE COMPANY<br>13th and Erie Streets<br>Pueblo, Colorado<br>SUMMIT BRICK PLANT<br>Ralph Welty, Manager | Brick<br>Tile | Pueblo |

TELLER COUNTY

| | | |
|---|---|---|
| GLEN SPIELMAN<br>Woodland Park, Colorado<br>D. & S. QUARRY<br>Glen Spielman, Manager | Feldspar<br>Fluorspar | Divide |
| FRANK M. HOLLEY<br>6195 Cascade Avenue<br>Colorado Springs, Colorado<br>LONE PINE QUARRY<br>Frank Holley, Manager | Feldspar | Woodland Park |

## OPERATING MILLS AND SMELTERS, 1951

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| **BOULDER COUNTY** | | |
| OZARK-MAHONING COMPANY<br>Rosiclare, Illinois<br>WANO MILL<br>E. G. Oritz, Manager<br>Jamestown, Colorado | Fluorspar | Boulder |
| VANADIUM CORPORATION OF AMERICA<br>Nederalnd, Colorado<br>WOLF TONGUE MILL<br>P. E. Harrison, Manager | Tungsten | Nederland |
| **CHAFFEE COUNTY** | | |
| R. L. CODY AND ASSOCIATES<br>522 West 7th Street<br>Leadville, Colorado<br>LITTLE FOUR MILL<br>R. L. Cody, Manager | Tungsten | Buena Vista |
| F. C. HARVEY<br>Box 586<br>Salida, Colorado<br>CALCIUM MILL<br>F. C. Harvey, Manager | Calcium | Salida |
| **CLEAR CREEK COUNTY** | | |
| SILVER SPRUCE GOLD MINING COMPANY<br>Idaho Springs, Colorado<br>SILVER SPRUCE MILL<br>C. M. Lyon, Manager | Silver<br>Lead<br>Zinc | Idaho Springs |
| JACK PINE MINING COMPANY<br>Idaho Springs, Colorado<br>BLACK EAGLE MILL<br>Douglas Watrous, Manager | Silver<br>Lead<br>Zinc | Idaho Springs |
| **DENVER COUNTY** | | |
| AMERICAN SMELTING & REFINING COMPANY<br>120 Broadway<br>New York 5, New York<br>GLOBE PLANT<br>W. L. Miles, Jr., Manager<br>First National Bank Building<br>Denver, Colorado | Cadmium | Denver |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| CONSOLIDATED FELDSPAR CORPORATION<br>1333 West Maple Street<br>Denver, Colorado<br>CONSOLIDATED FELDSPAR CORPORATION PLANT<br>Roy F. Smith, Manager | Feldspar | Denver |
| WESTERN FELDSPAR MILLING COMPANY<br>Box 671<br>Salida, Colorado<br>WESTERN FELDSPAR MILL<br>J. W. Magnuson, Manager<br>Denver, Colorado | Feldspar | Denver |
| **DOLORES COUNTY** | | |
| EDWARD A. EDWARDS<br>Rico, Colorado<br>EDWARDS MILL<br>Edward A. Edwards, Manager | Gold | Rico |
| **EL PASO COUNTY** | | |
| C. RYAN & SON<br>Box 7828<br>Lakewood, Colorado<br>PIKE VIEW CRUSHING PLANT<br>C. Ryan & Son, Manager | Crushed Rock | Colorado Springs |
| **FREMONT COUNTY** | | |
| CONSOLIDATED FELDSPAR CORPORATION<br>Parkdale, Colorado<br>PARKDALE MILL<br>Max Maxwell, Manager | Feldspar<br>Lepidolite<br>Spodumene | Canon City |
| EMPIRE ZINC DIVISION,<br>NEW JERSEY ZINC COMPANY<br>160 Front Street<br>New York 38, New York<br>EMPIRE ZINC PLANT<br>Robert Davis, Manager | Sintered Zinc Concentrates | Canon City |
| ALEXITE ENGINEERING DIVISION,<br>ALEXANDER FILM COMPANY<br>Alexander Film Building<br>Colorado Springs, Colorado<br>FLORENCE PERLITE PLANT<br>Ray Ebeling, Manager | Raw and expanded Perlite | Florence |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| **GARFIELD COUNTY** | | |
| U. S. VANADIUM COMPANY<br>30 East 42nd Street<br>New York 17, New York<br>U. S. VANADIUM MILL<br>J. F. Brenton, Manager<br>Rifle, Colorado | Carnotite | Rifle |
| **LAKE COUNTY** | | |
| AMERICAN SMELTING & REFINING COMPANY<br>120 Broadway<br>New York 5, New York<br>ARKANSAS VALLEY SMELTER<br>Leadville, Colorado<br>T. P. Fahey, Manager | Lead | Leadville |
| **LA PLATA COUNTY** | | |
| VANADIUM CORPORATION OF AMERICA<br>Durango, Colorado<br>VANADIUM CORPORATION OF AMERICA MILL<br>W. L. Anderson, Manager | Carnotite | Durango |
| **MONTROSE COUNTY** | | |
| U. S. VANADIUM COMPANY<br>P. O. Box 1169<br>Grand Junction, Colorado<br>URAVAN PLANT<br>J. W. Hill, Manager<br>Uravan, Colorado | Carnotite | Uravan |
| **OURAY COUNTY** | | |
| SILVER SHIELD MINING AND MILLING COMPANY<br>Ouray, Colorado<br>SILVER SHIELD MINING AND MILLING COMPANY MILL<br>Milton Page, Manager<br>Ridgway, Colorado | Flotation | Ouray |
| AMERICAN ZINC, LEAD AND SMELTING COMPANY<br>Ouray, Colorado<br>AMERICAN MILL NO. 1<br>Harry Miller, Manager | Custon Mill | Ouray |

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| **PUEBLO COUNTY** | | |
| WESTERN NON-METALLICS, INC.<br>330 West D Street<br>Pueblo, Colorado<br>MICA GRINDING PLANT<br>A. J. Rozboril, Manager | Ground Mica | Pueblo |
| ROCK WOOL INSULATING COMPANY<br>1906 Court Street<br>Pueblo, Colorado<br>ROCK WOOL PLANT<br>Earl P. Melia, Manager | Rock Wool<br>Rock Wool Batts | Pueblo |
| COLORADO PERLITE COMPANY<br>Box 231<br>Pueblo, Colorado<br>PERLITE PROCESSING PLANT<br>E. B. Cribbs, Manager | Perlite | Pueblo |
| **TELLER COUNTY** | | |
| THE GOLDEN CYCLE CORPORATION<br>Box 47<br>Victor, Colorado<br>CARLTON MILL<br>Howard R. Keil, Manager | Gold | Victor |

OPERATING PLACERS AND DREDGES, 1951

| NAME OF OPERATION | PRODUCT | PROPERTY LOCATION |
|---|---|---|
| OURAY COUNTY | | |
| C. L. DAVIS LESSEE<br>Hotchkiss, Colorado<br>BOX CANON PLACER<br>C. L. Davis, Manager | Gold | Ouray |
| PARK COUNTY | | |
| SOUTH PLATTE DREDGING COMPANY<br>Fairplay, Colorado<br>SOUTH PLATTE DREDGE<br>Webb Skinner, Manager<br>Fairplay, Colorado | Gold | South Park |
| C.L. LOGUE<br>Box 89<br>Alma, Colorado<br>LOGUE PLACER<br>C.L.Logue, Manager | Gold | Alma |

ROAD WORK, TUNNELS AND DAMS, 1951

BOULDER COUNTY

CITY OF DENVER WATER DEPARTMENT
Municipal Building
Denver, Colorado
#22 RESERVOIR DAM
South Boulder Creek,
Cresent, Colorado
C. L. McDonald, Manager
Route 2
Golden, Colorado

CONEJOS COUNTY

HINMAN BORTHERS CONSTRUCTION COMPANY
Box 2571
Denver, Colorado
Platoro Dam
Alamosa, Colorado

DELTA COUNTY

E. J. RIPPEY & SON
New Castle, Colorado
STATE HIGHWAY #92- PROJECT S-0125 (3)
Delta County
A. Rippey, Manager

GRAND COUNTY

CITY OF DENVER WATER DEPARTMENT
Municipal Building
Denver, Colorado
ST. LOUIS #2 WATER DIVERSION TUNNEL
Hide-A-Way, Colorado
W. A. Henderson, Manager

GUNNISON COUNTY

L. J. HESSER
Box 806
Greeley, Colorado
STATE HIGHWAY #135 - PROJECT S-0119 (7)
Gunnison County
L. J. Hesser, Manager

LAKE COUNTY

UTAH CONSTRUCTION COMPANY
Box 909
Leadville, Colorado
LEADVILLE DRAINAGE TUNNEL
Leadville, Colorado

MONTROSE - SAN MIGUEL COUNTIES

ALGIER CONSTRUCTION COMPANY
1865 Garland Street
Lakewood, Colorado
PROJECT F-020-1
Norwood, Colorado

PARK COUNTY

BOARD OF WATER COMMISSIONERS
City and County Building
Denver, Colorado
BLUE RIVER TUNNEL
Grant, Colorado

SAGUACHE COUNTY

L. J. HESSER
Box 806
Greeley, Colorado
STATE HIGHWAY #114 - PROJECT S-0124 (2)
Saguache County
L. J. Hesser, Manager

SAN JUAN - LA PLATA COUNTIES

NORTHWESTERN ENGINEERING COMPANY
Box 567
Denver, Colorado
ROAD PROJECT F-109-2
Cascade and Lime Creek, Colorado

TELLER COUNTY

PLATT ROGERS, INC.
Box 153
Pueblo, Colorado
ROSEMONT TUNNEL
Rosemont, Colorado

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